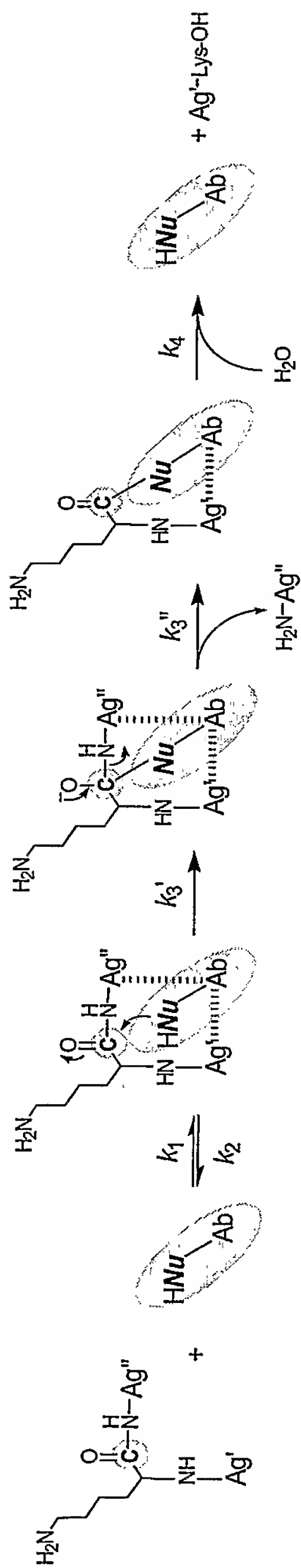
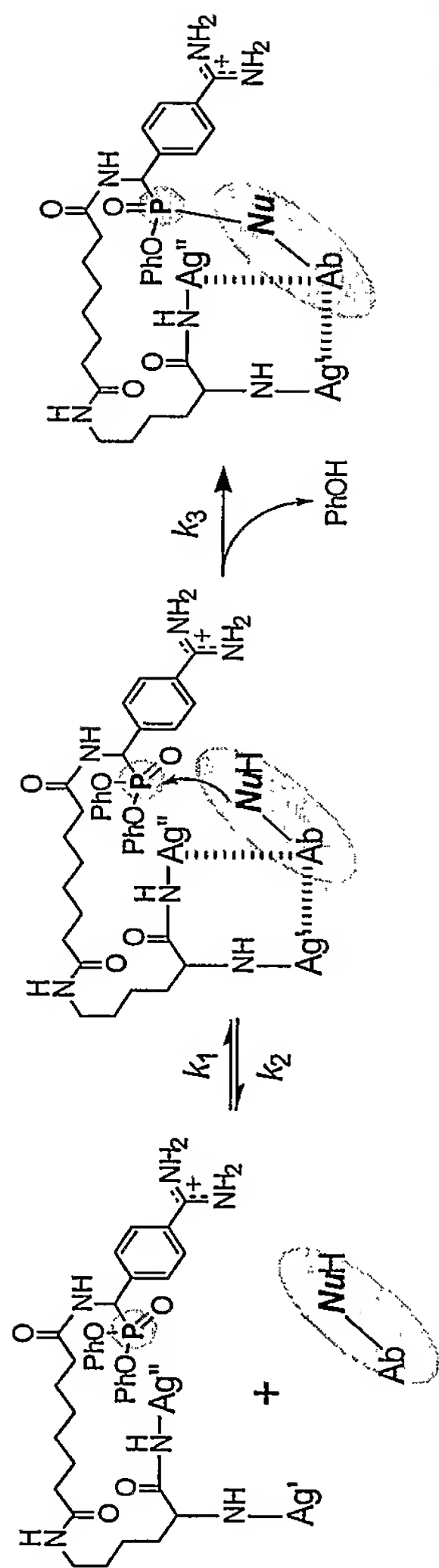


Fig 1

A



B



C

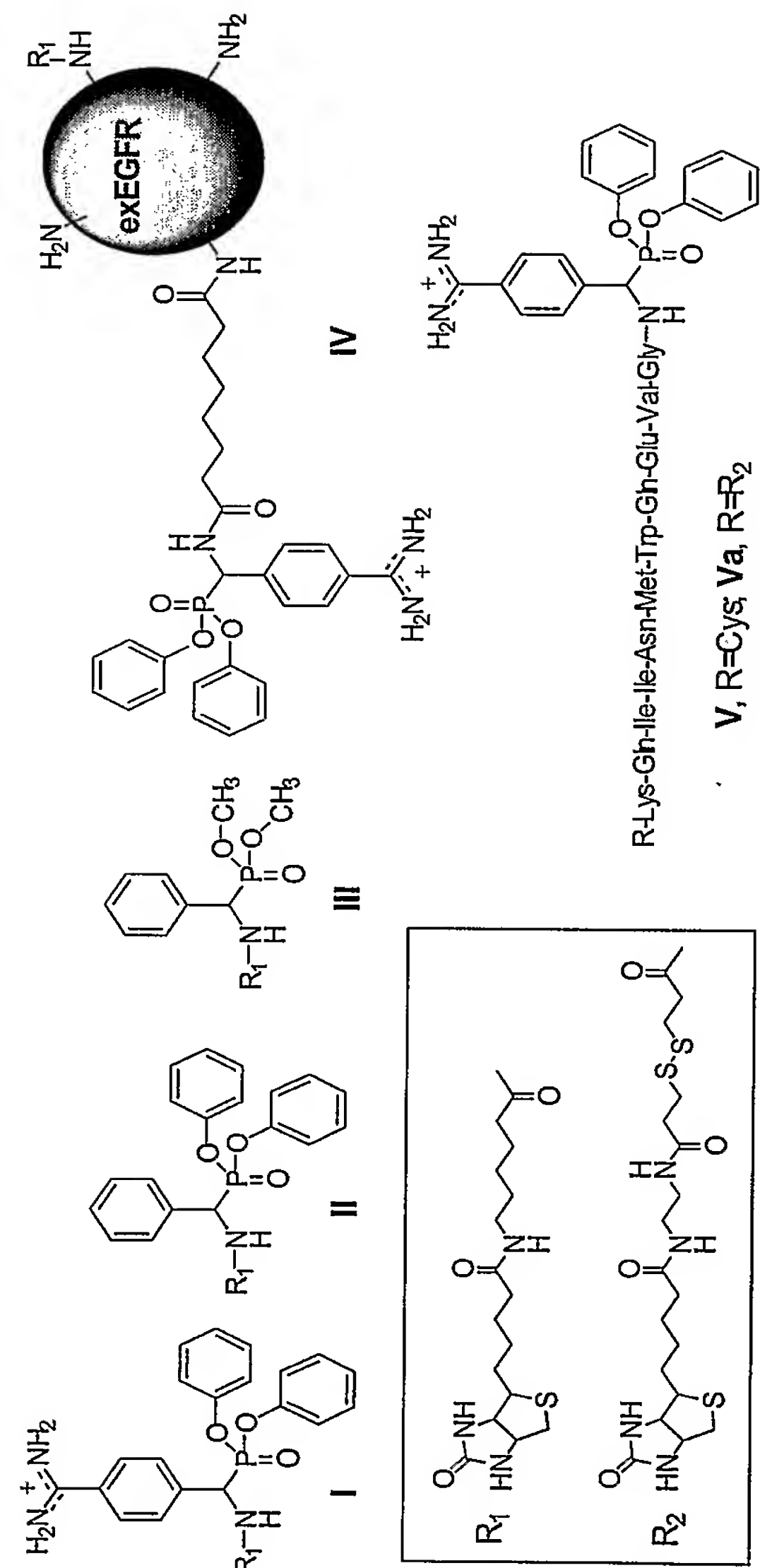


Fig 2

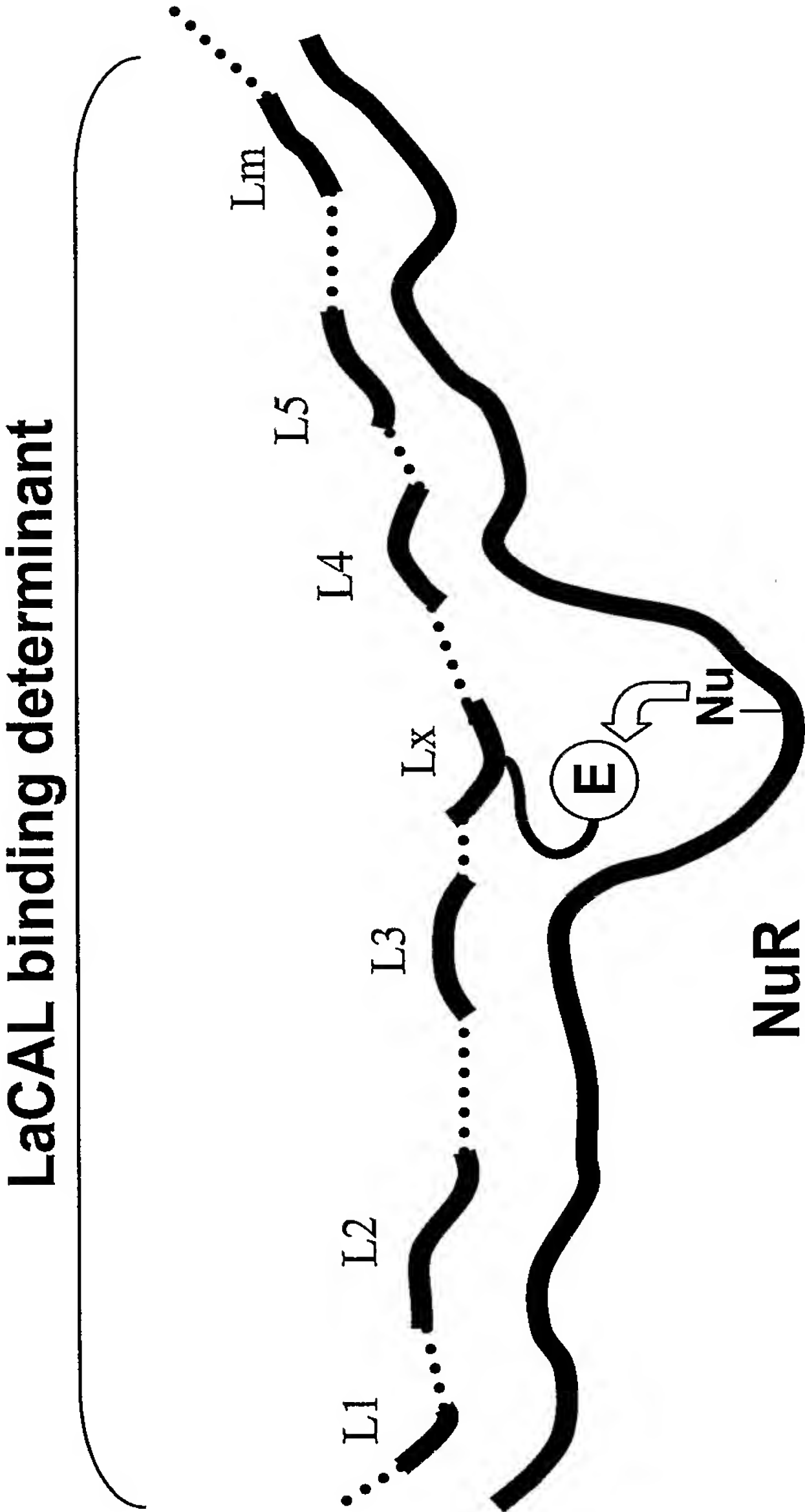


Fig 3

Catalysis and covalent binding energies of proteins

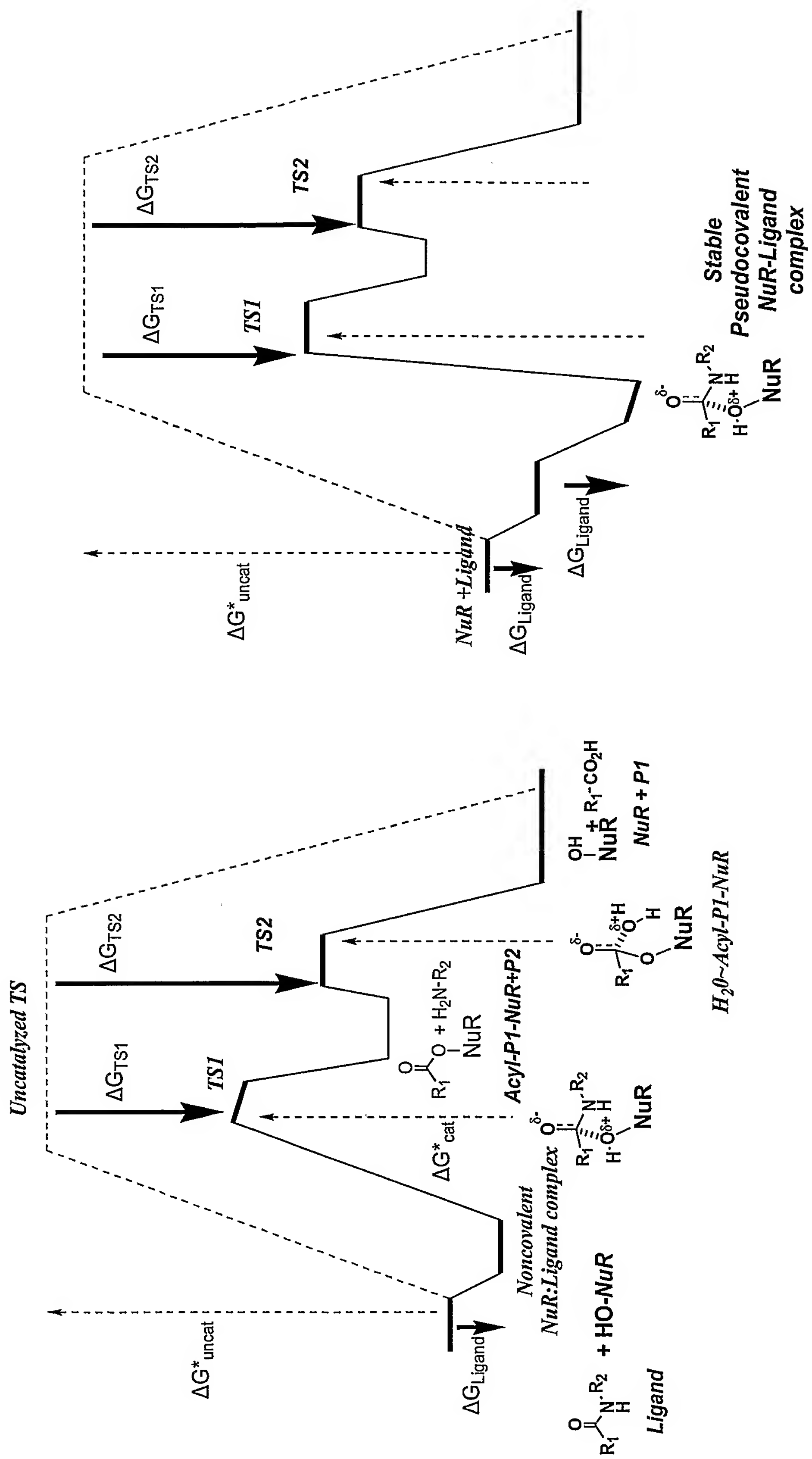
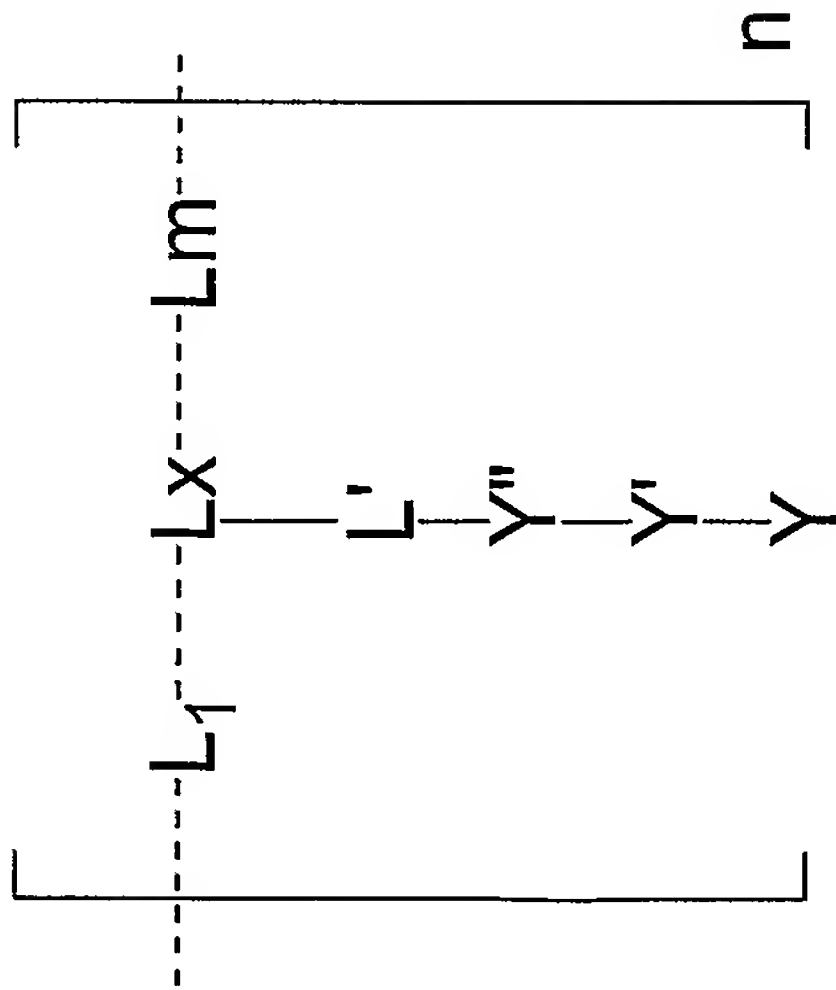
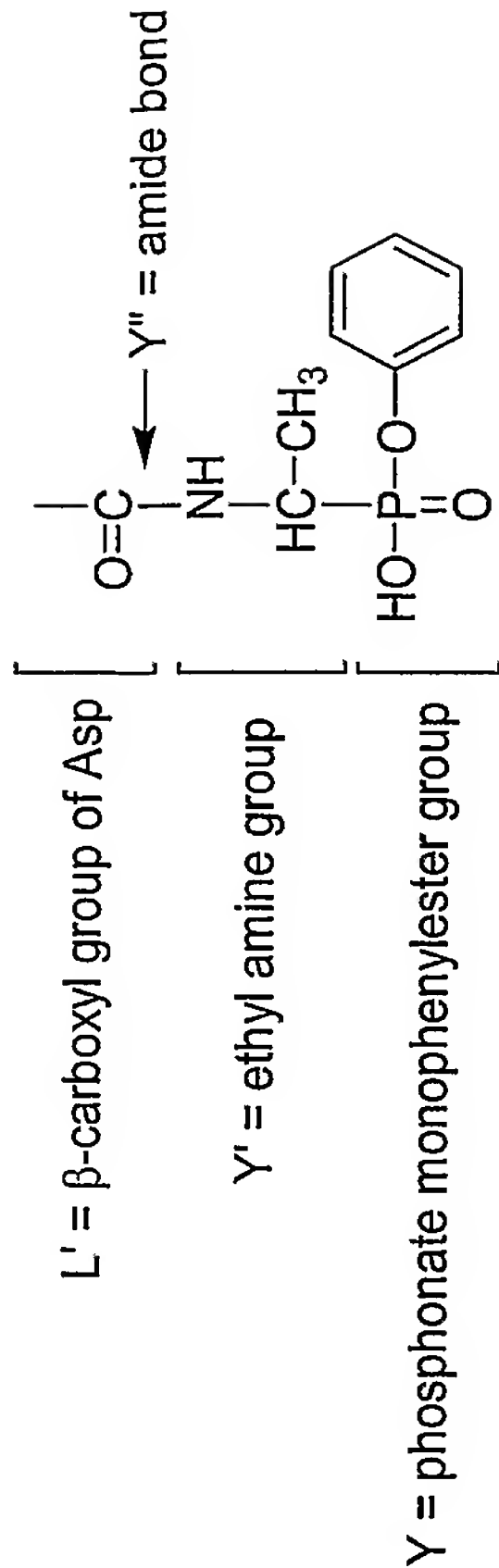


Fig 4

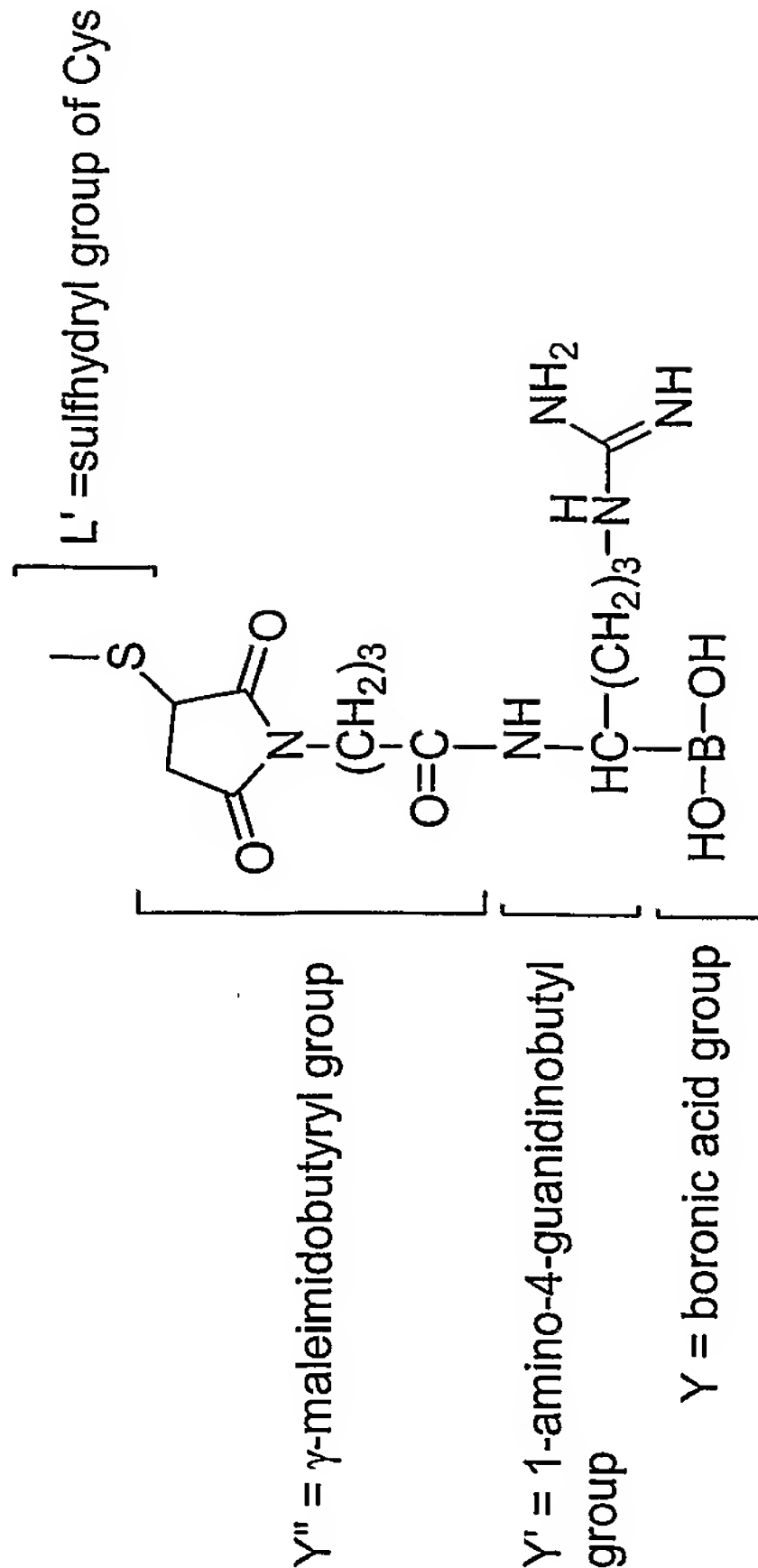
General structure of LaCAL



• $\text{L}'\text{-Y}''\text{-Y}'\text{-Y}$, Example 1



• $\text{L}'\text{-Y}''\text{-Y}'\text{-Y}$, Example 3



• $\text{L}'\text{-Y}''\text{-Y}'\text{-Y}$, Example 2

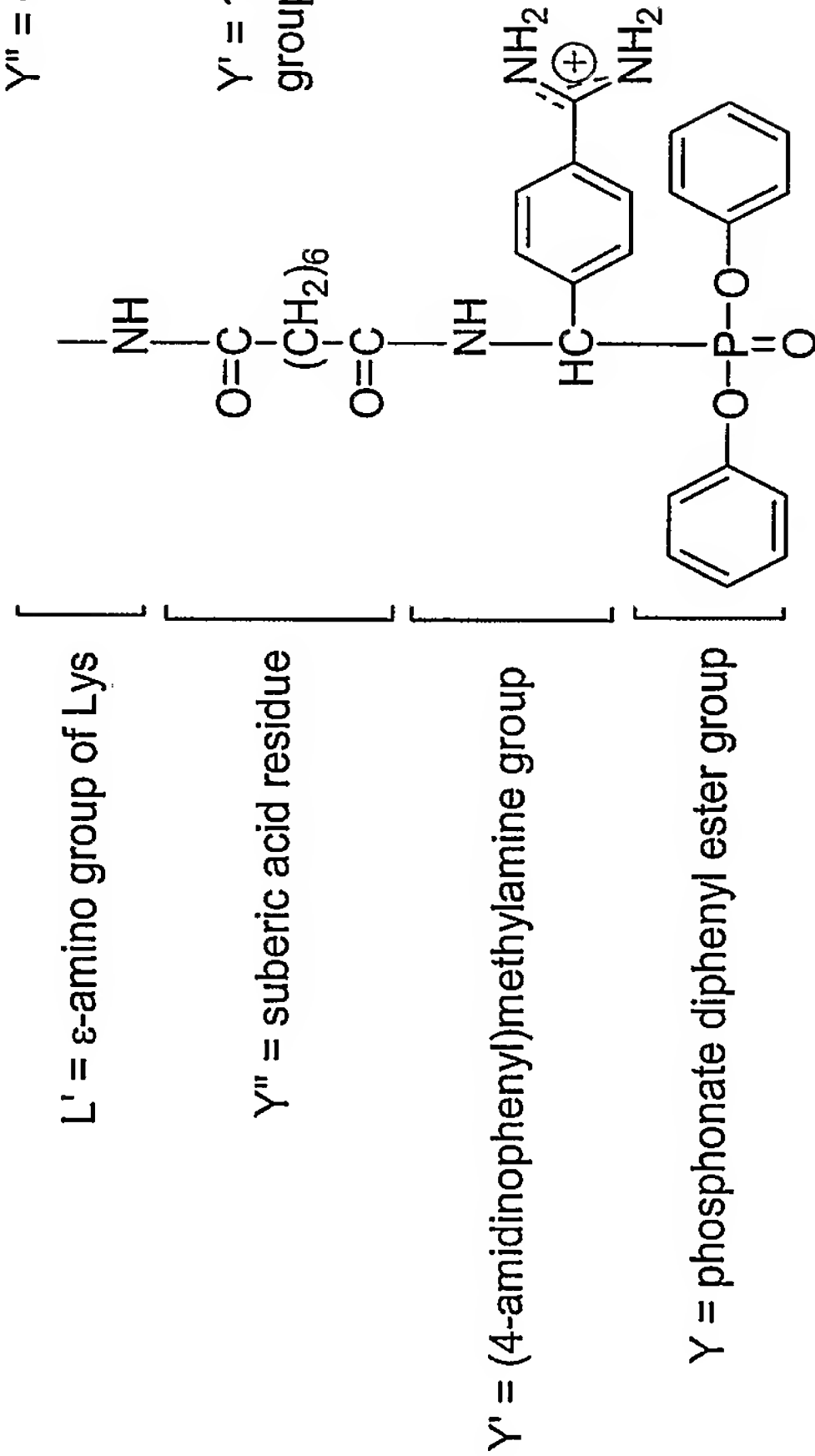
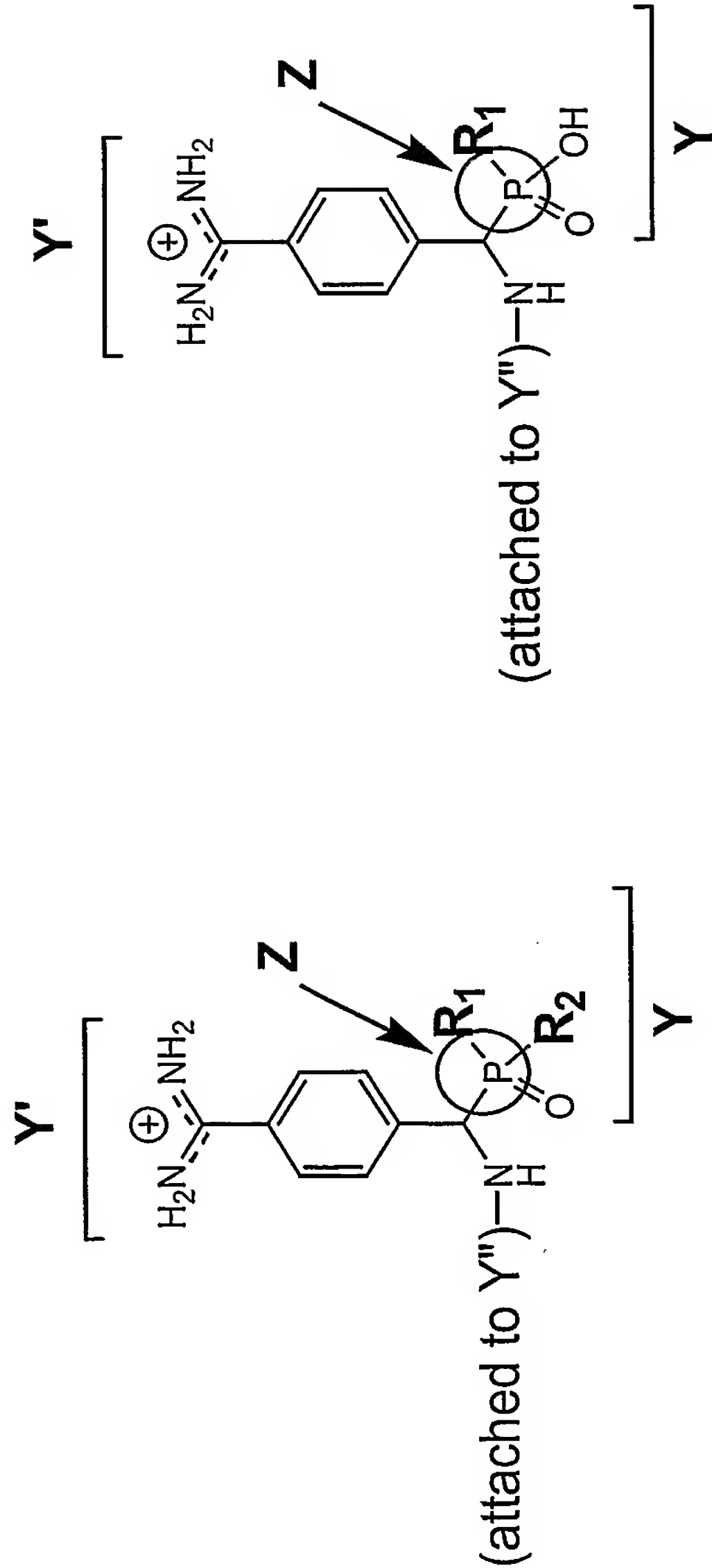


Fig 5A



LaCAL Z-R pair: Example 1

LaCAL Z-R pair: Example 2

Fig 5B

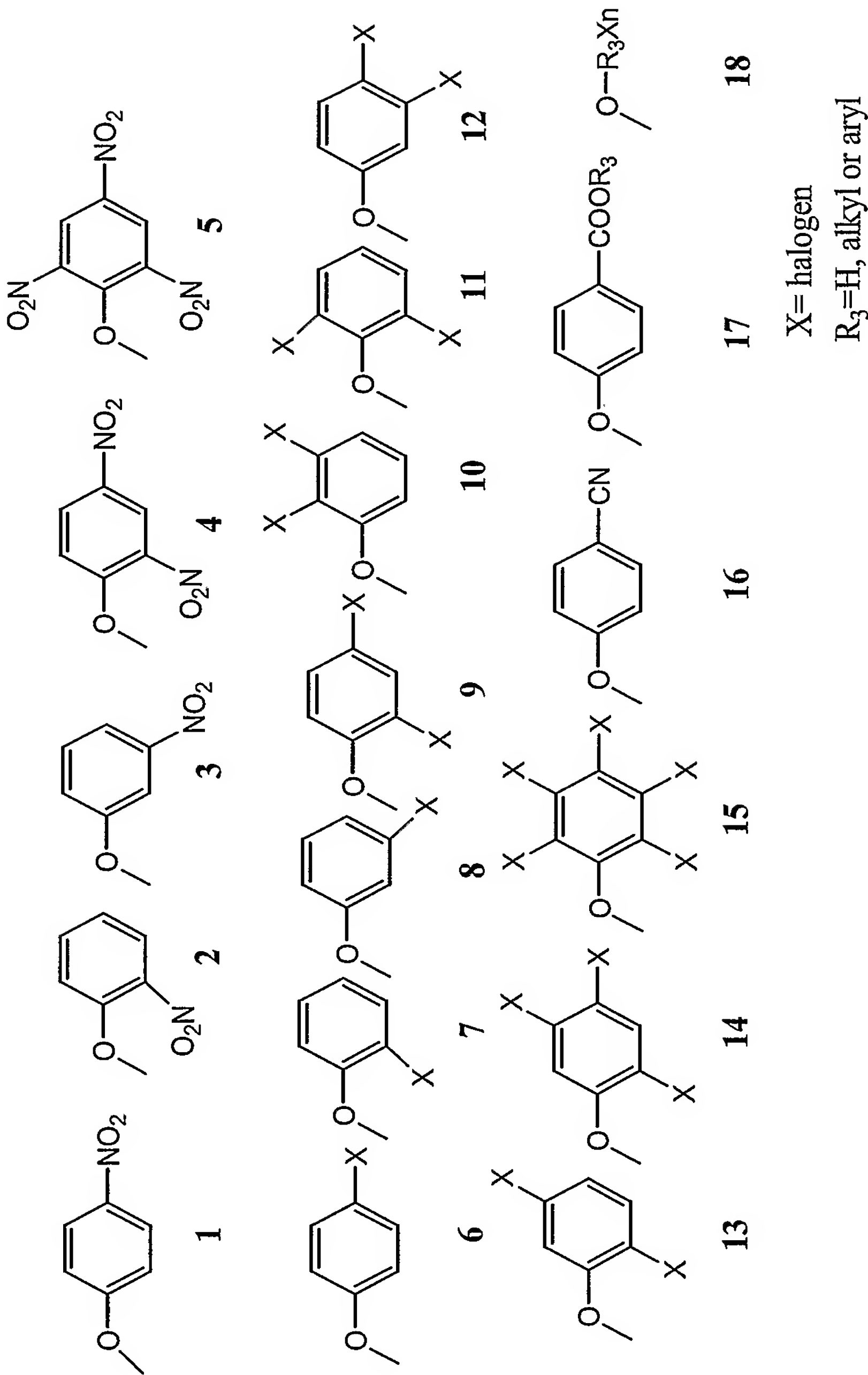
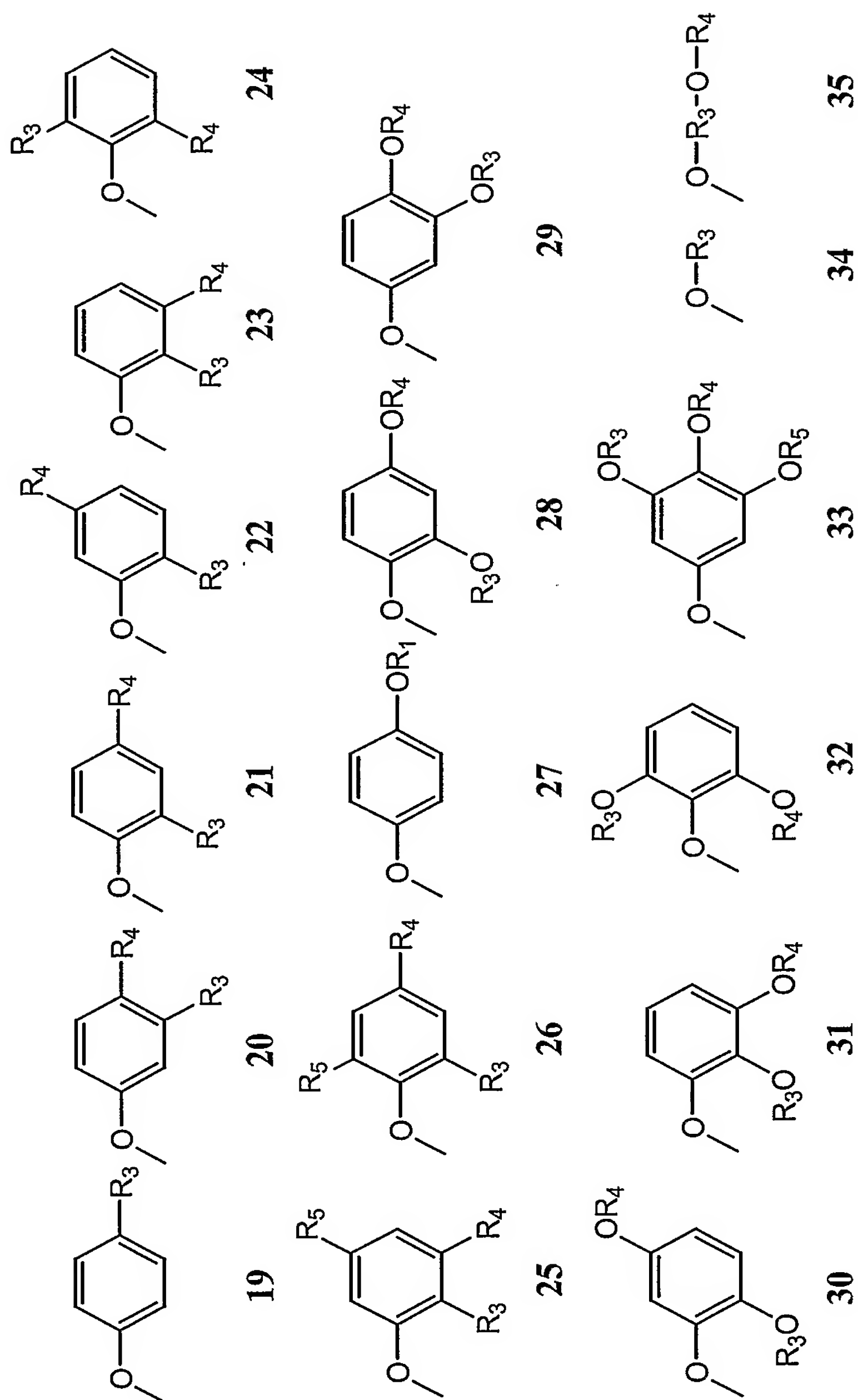


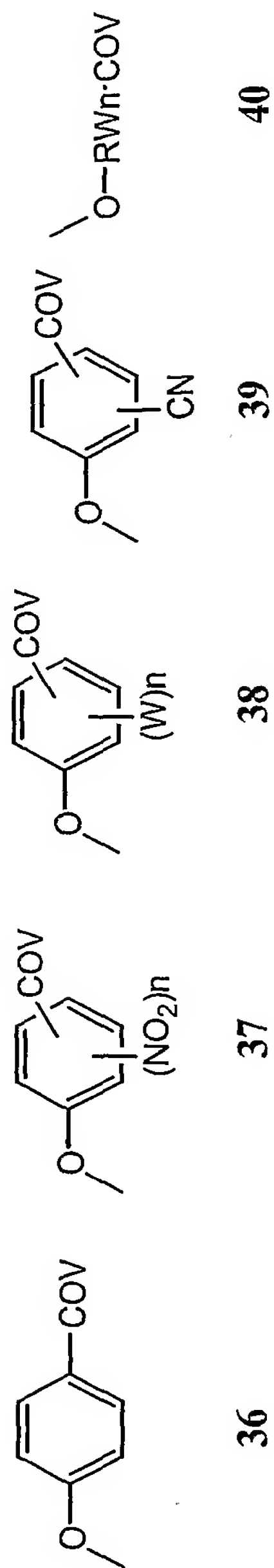
Fig 5C



$\text{R}_n = \text{H, alkyl or aryl}$

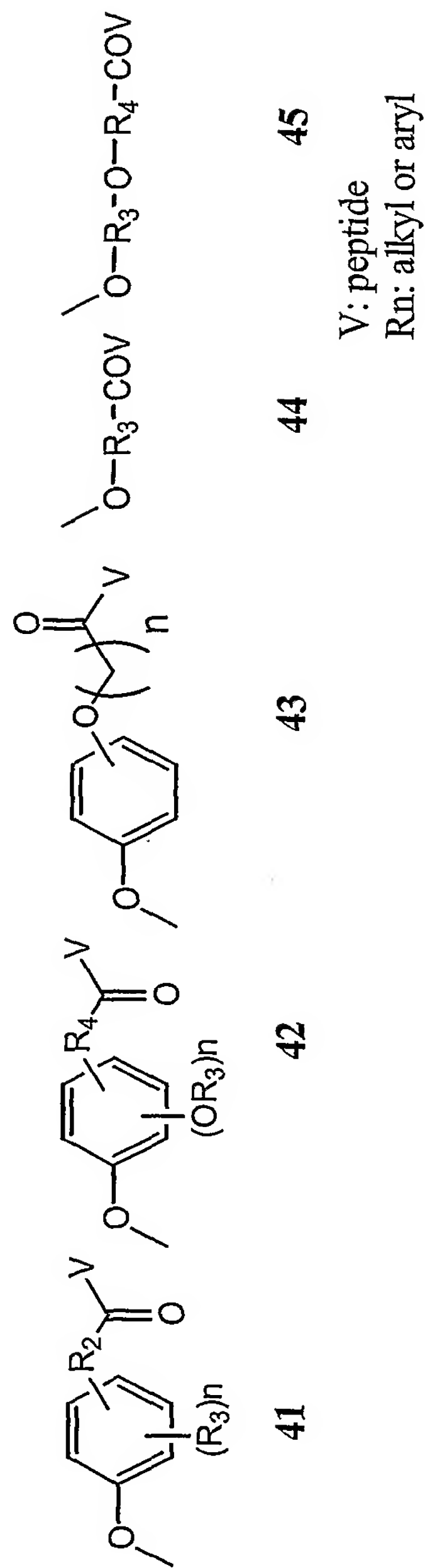
Fig 5D

A. Electron withdrawing substituents with peptide extension



W: halogen
V: peptide
R: alkyl or aryl

B. Electron donating substituents with peptide extension



V: peptide
Rn: alkyl or aryl

Fig 6

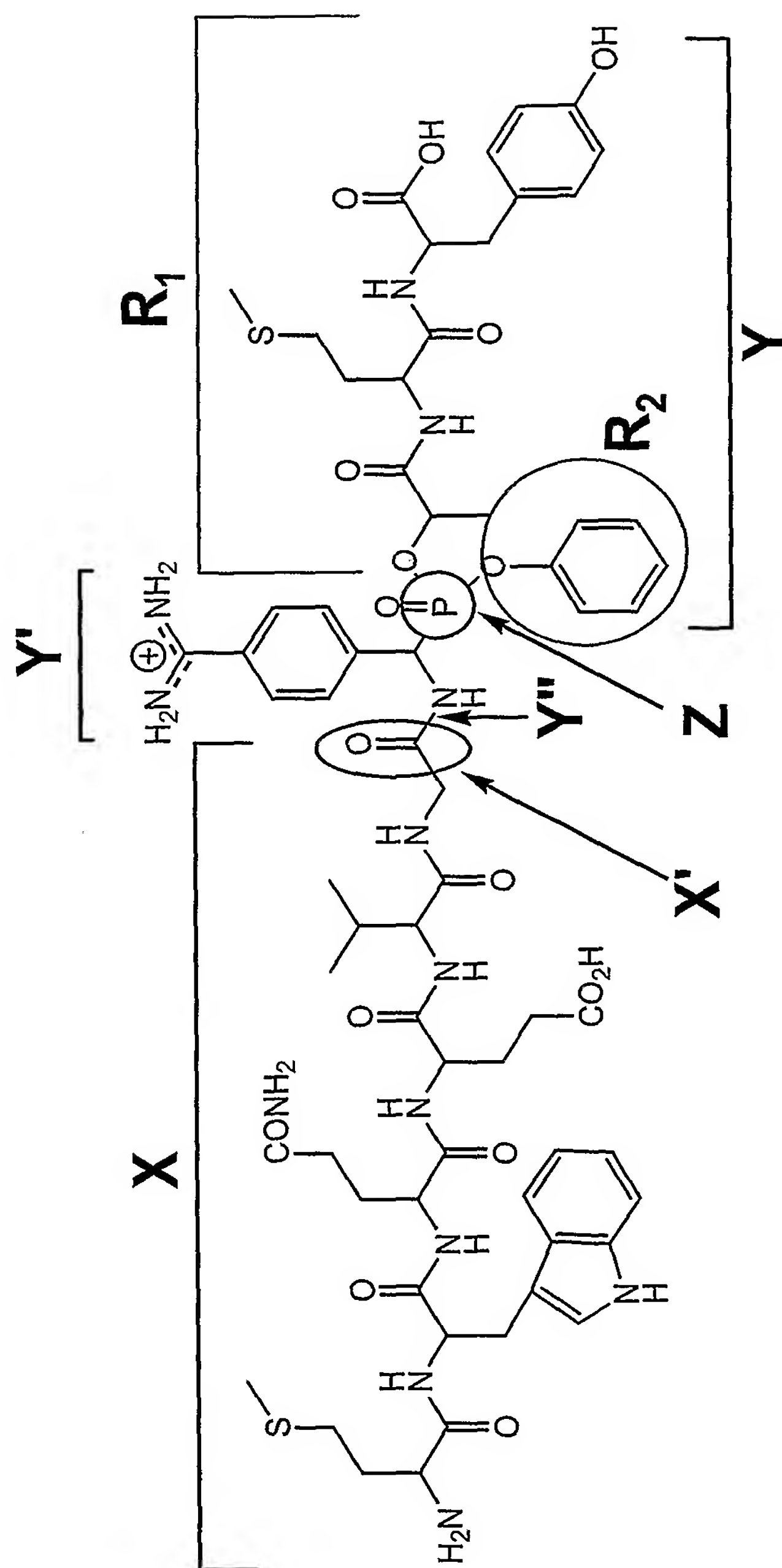


Fig 7

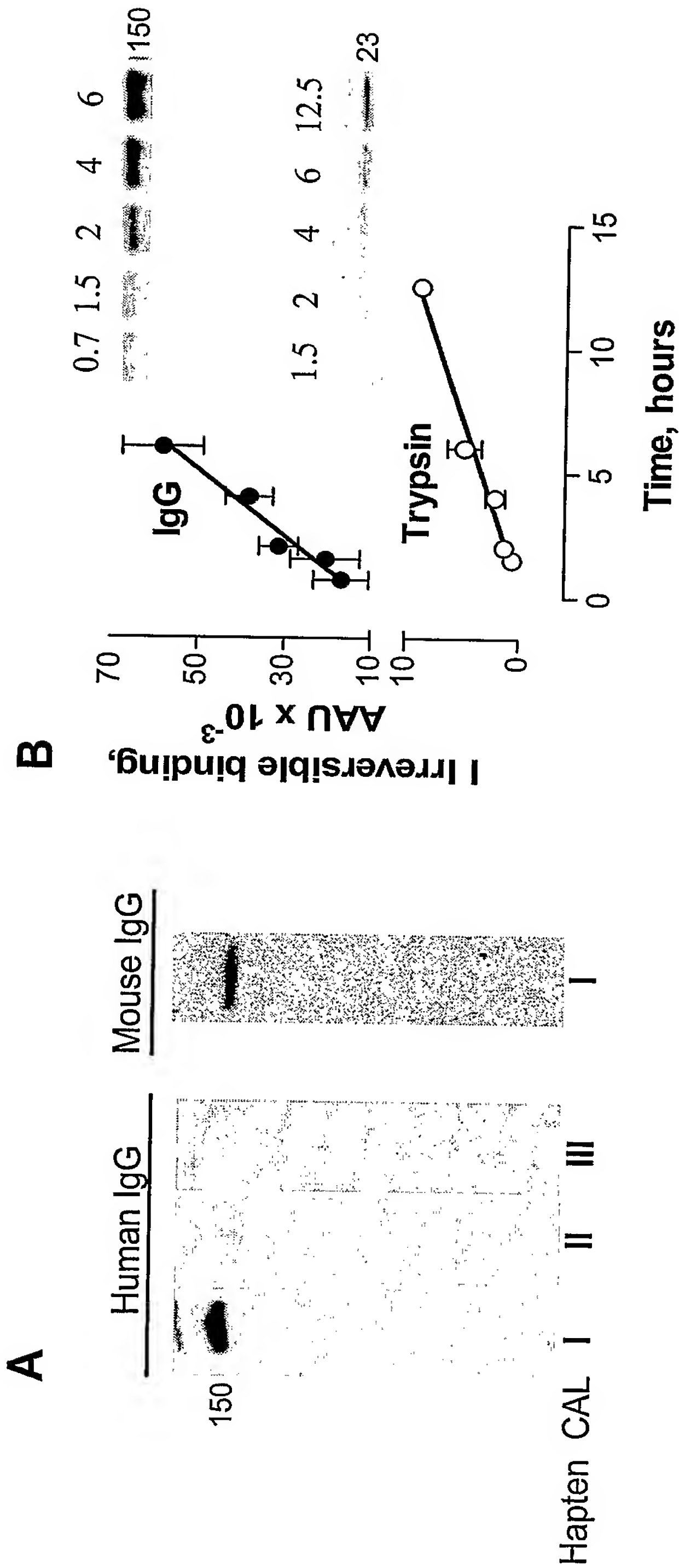


Fig 8

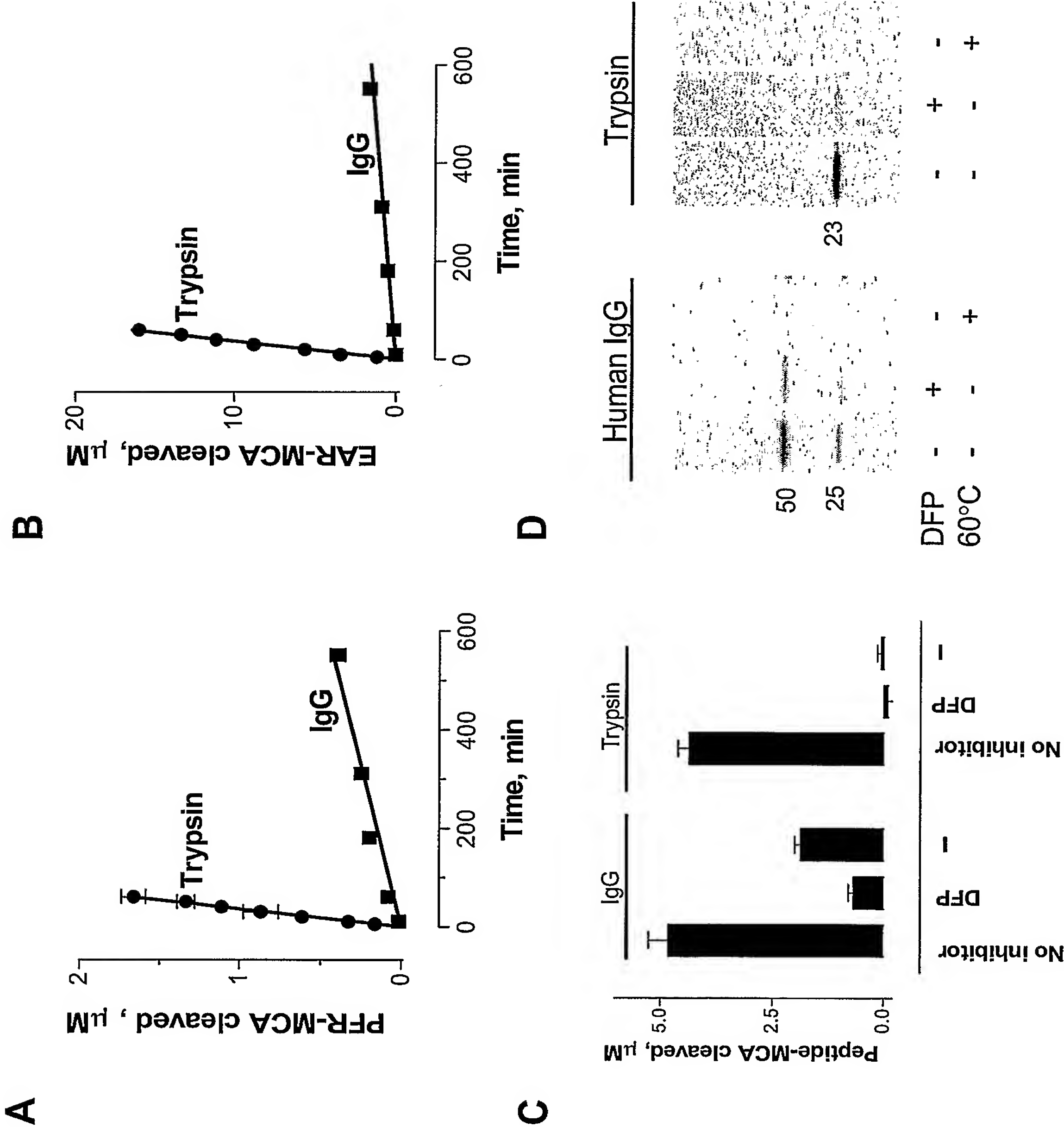


Fig 9



Fig 10

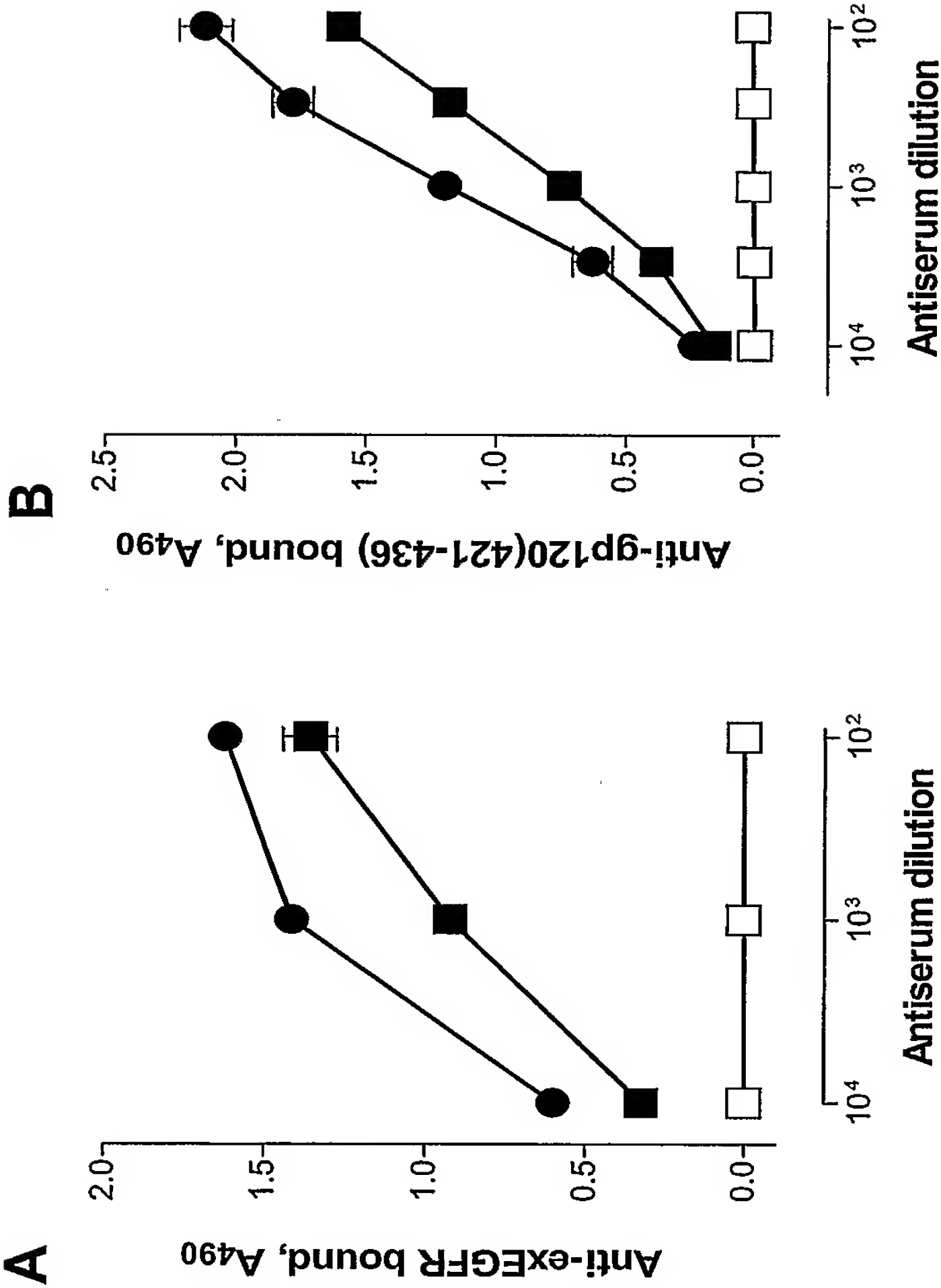


Fig 11

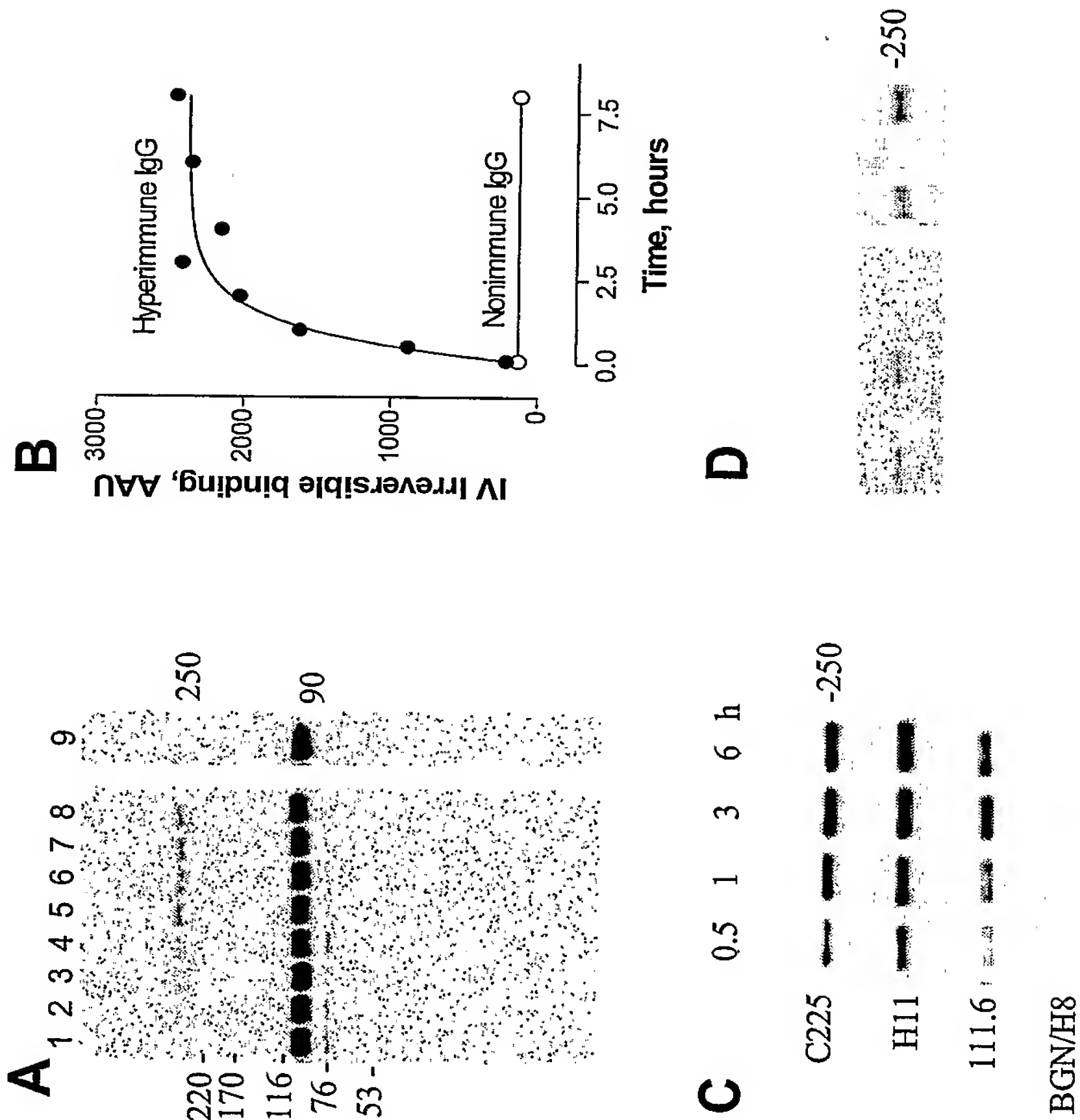


Fig 12

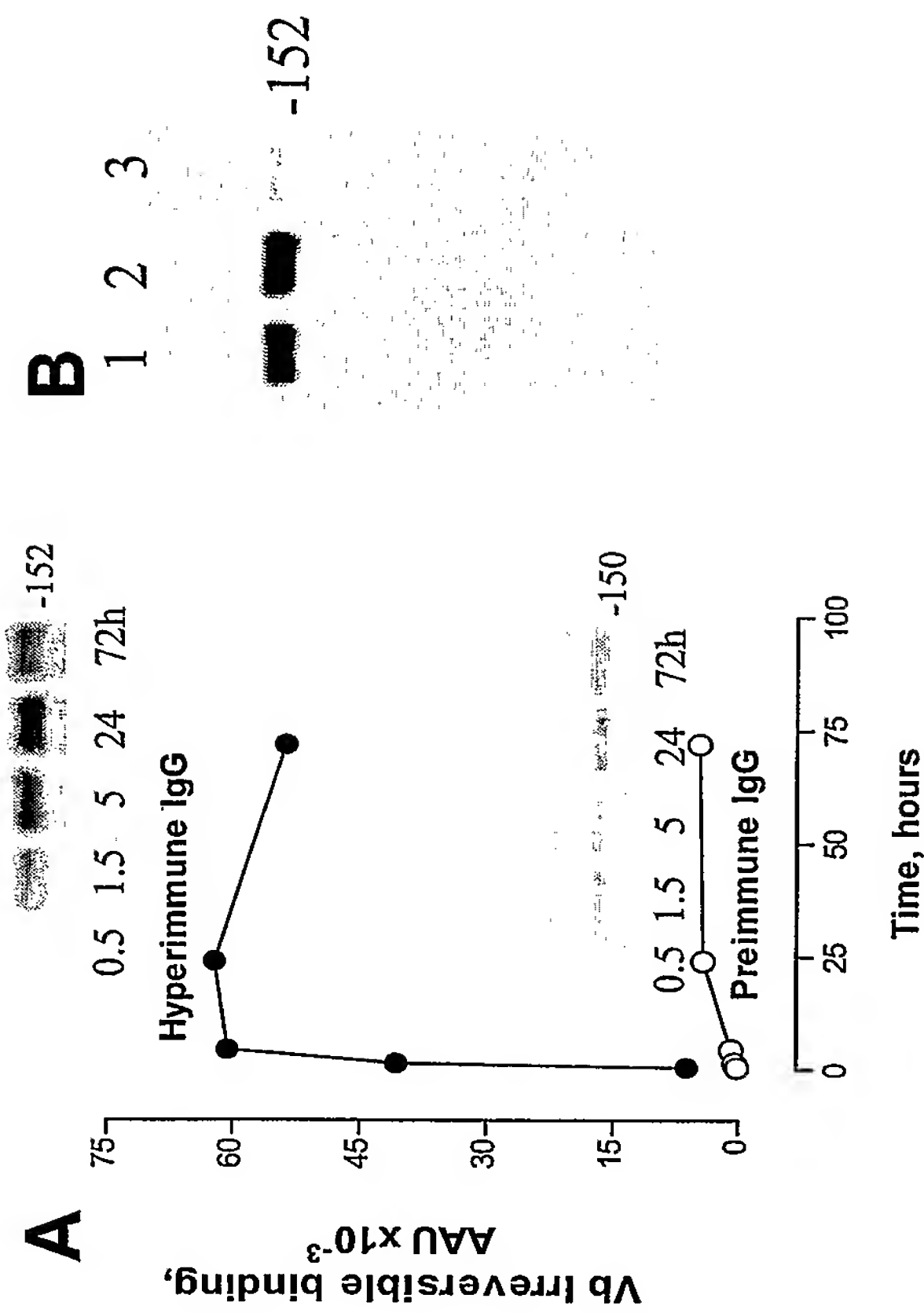


Fig 14

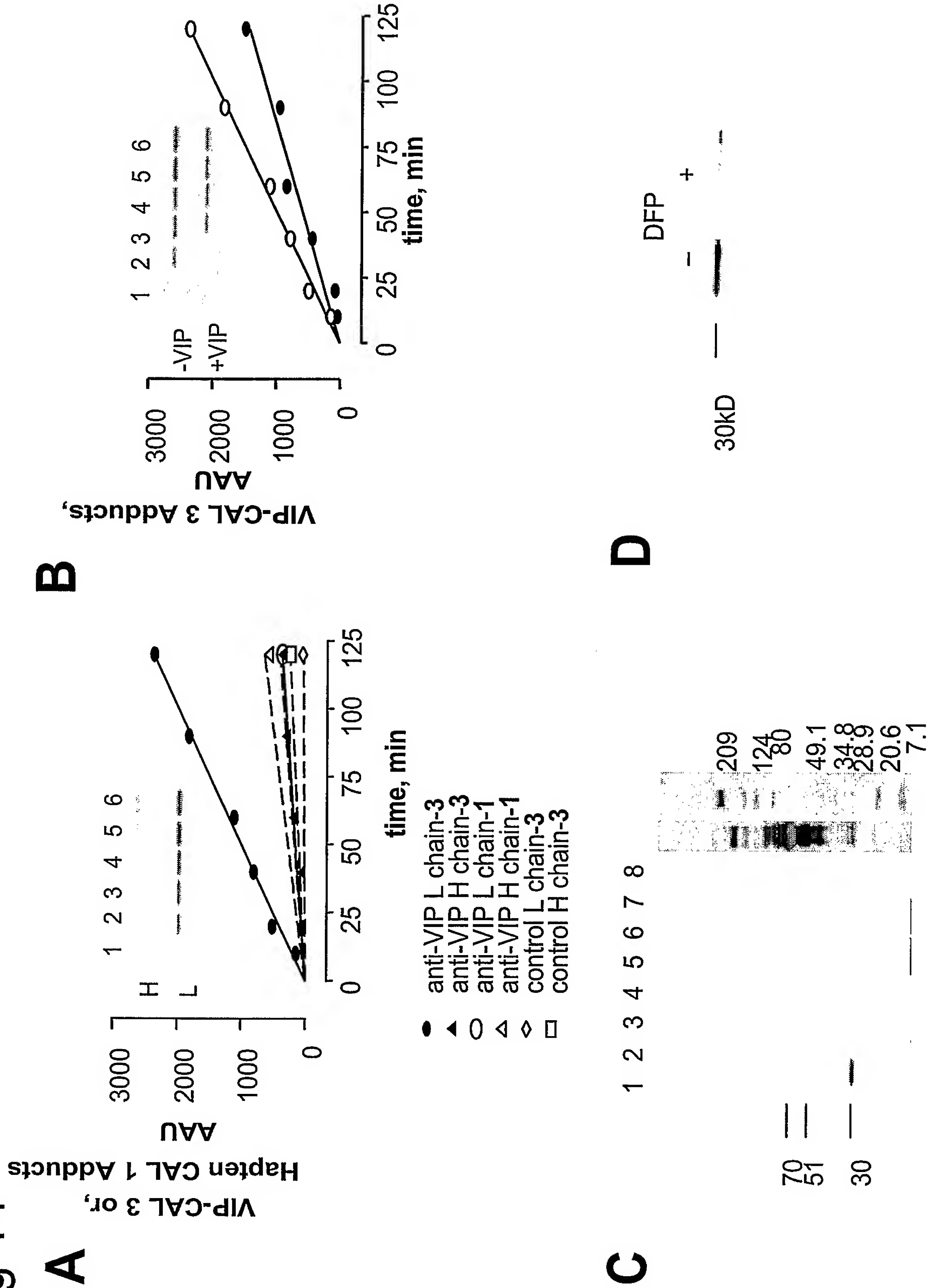
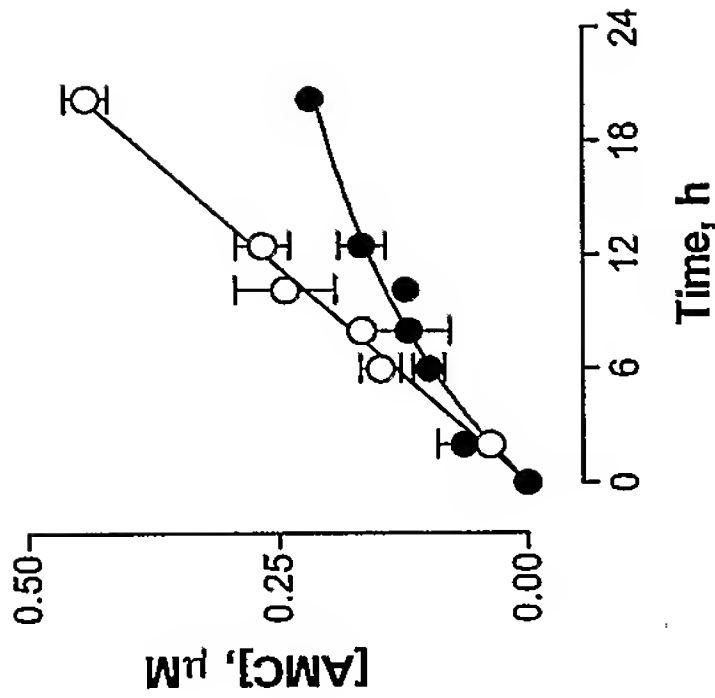
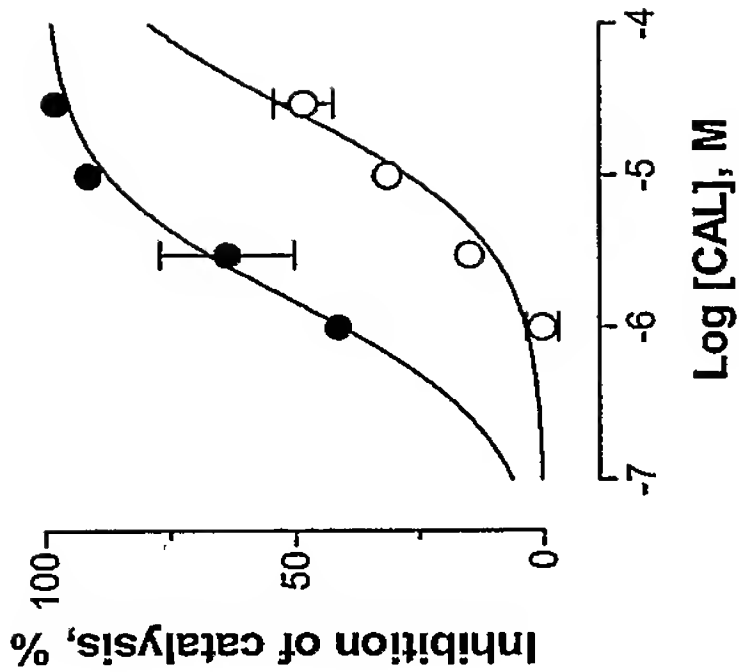


Fig 15

A



B



C

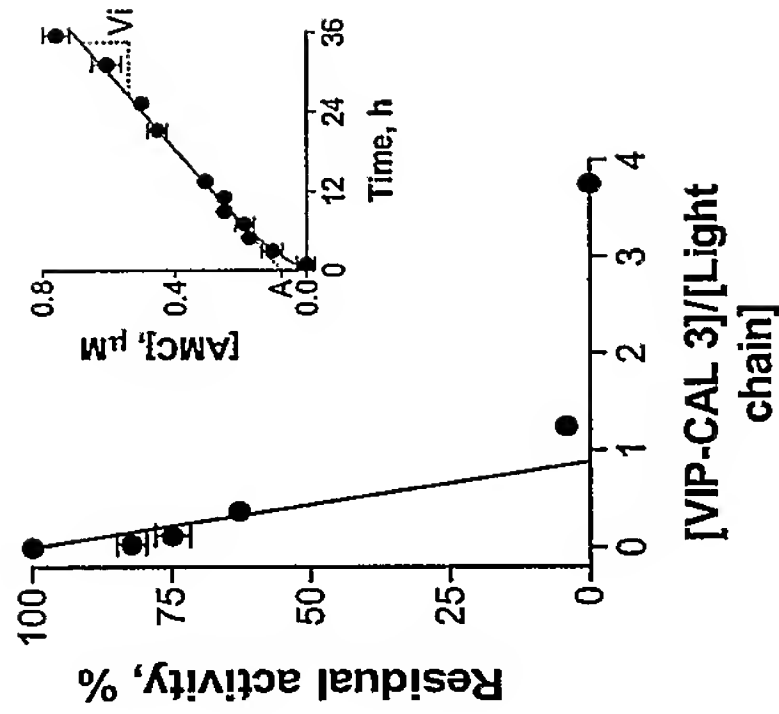
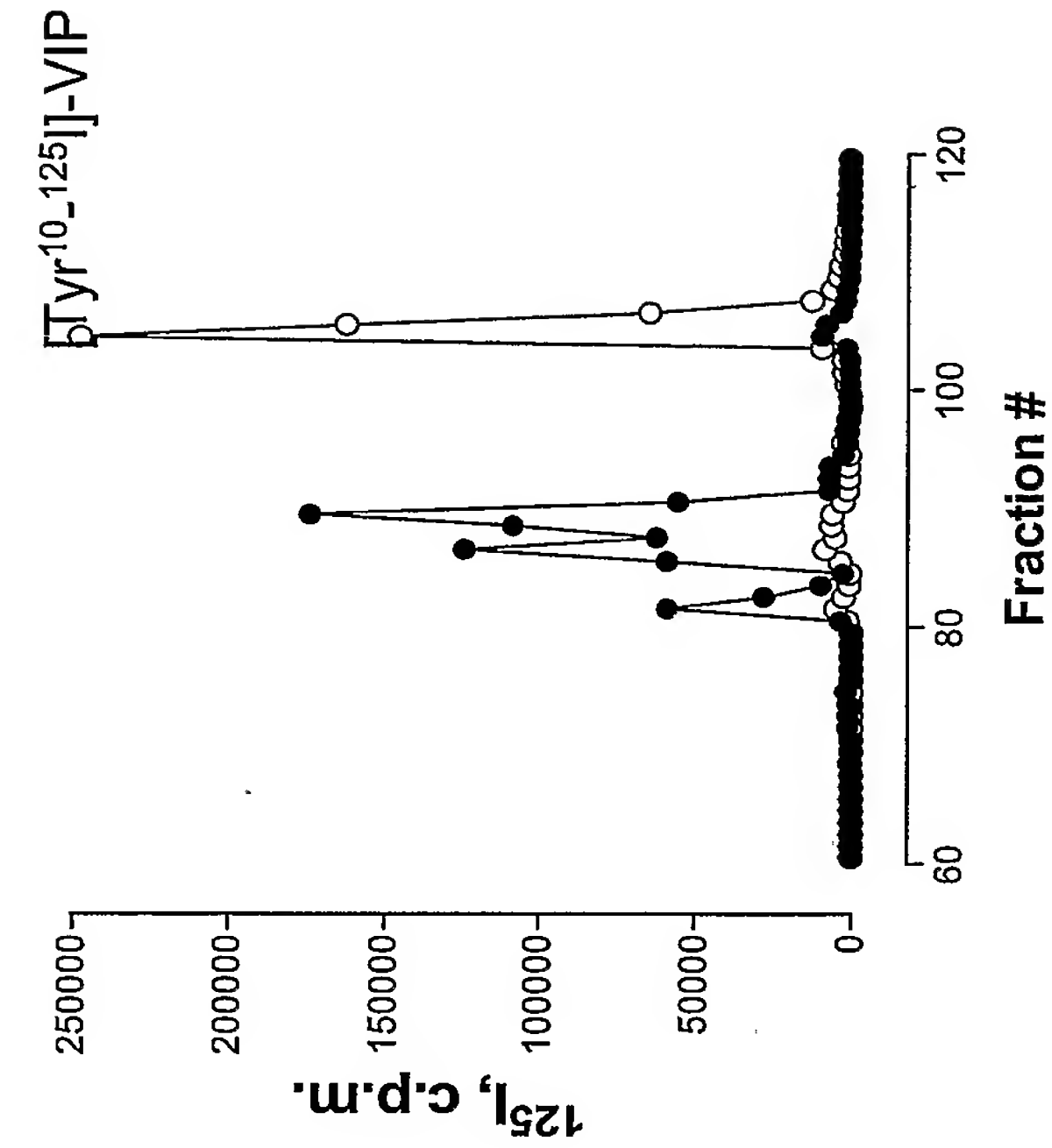


Fig 16

A



B

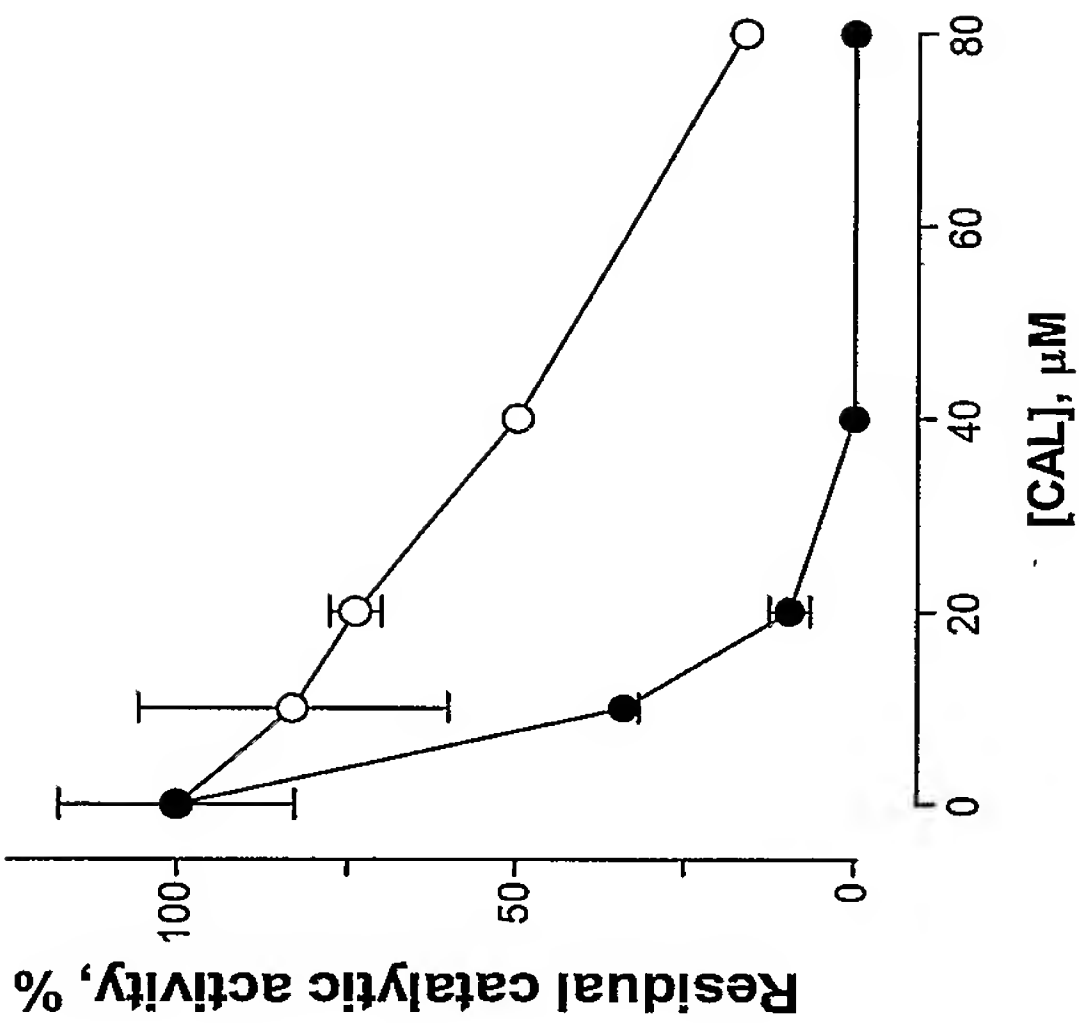
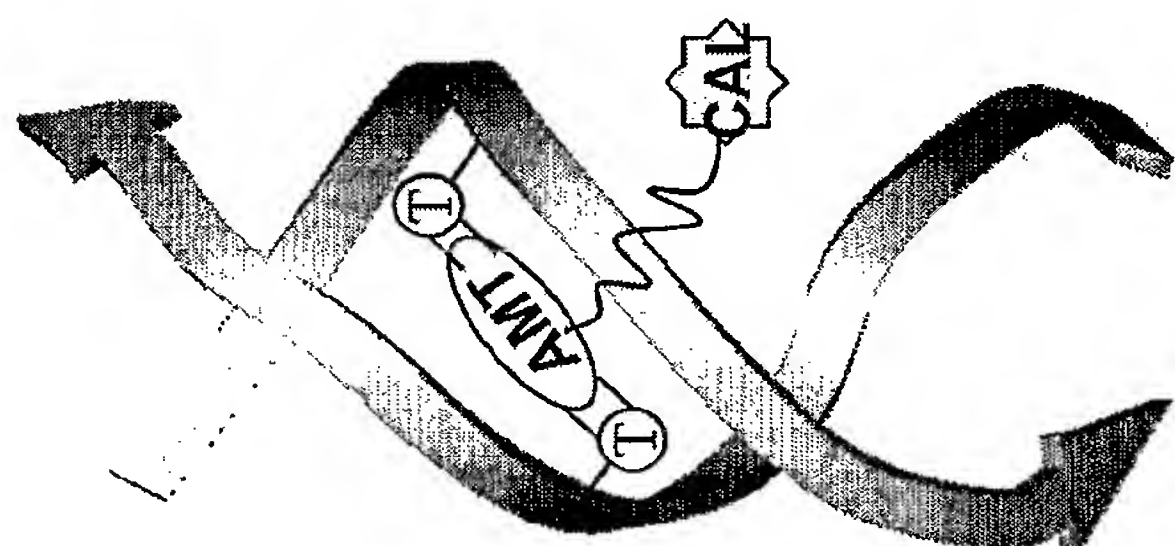
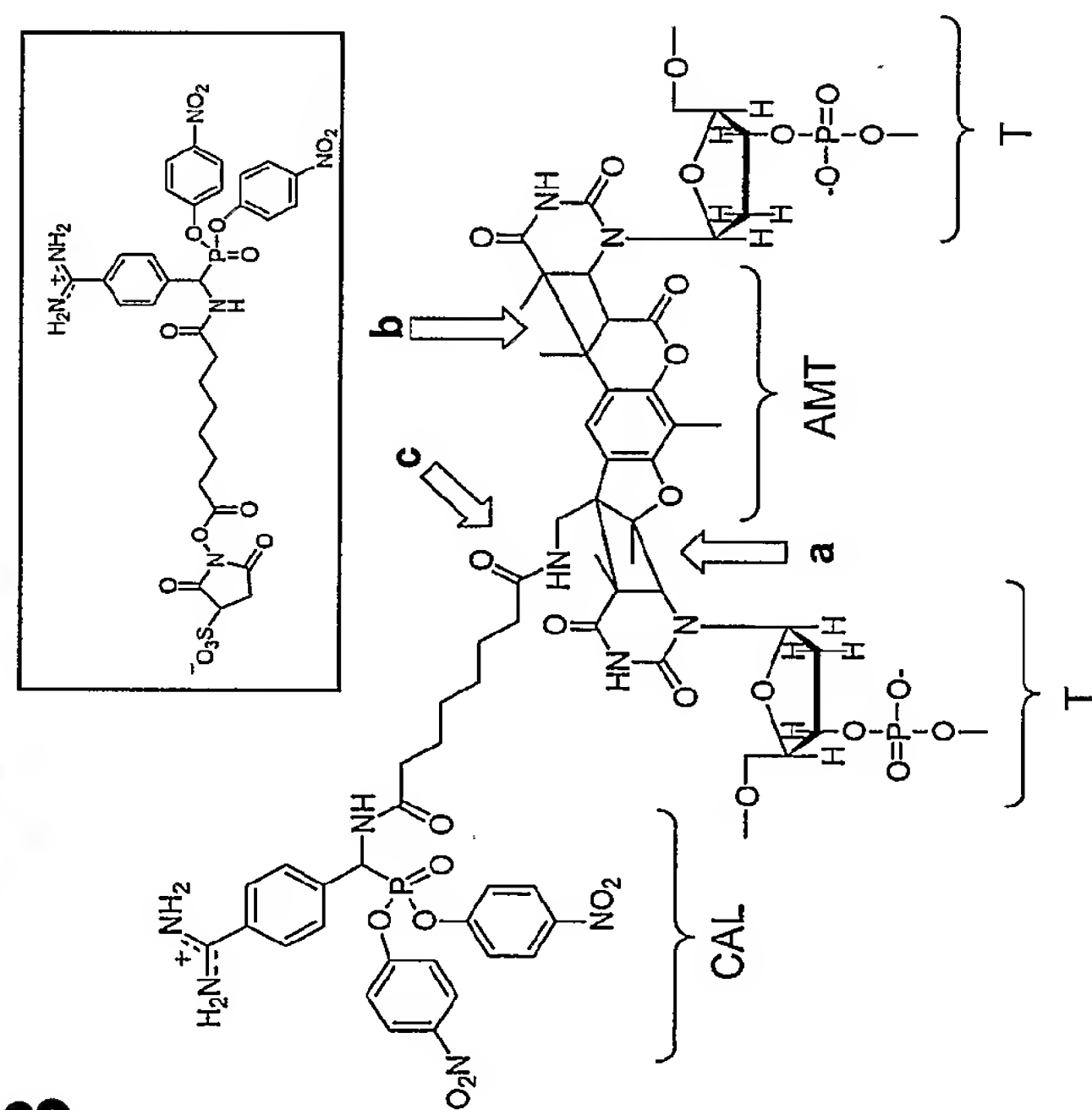


Fig 17

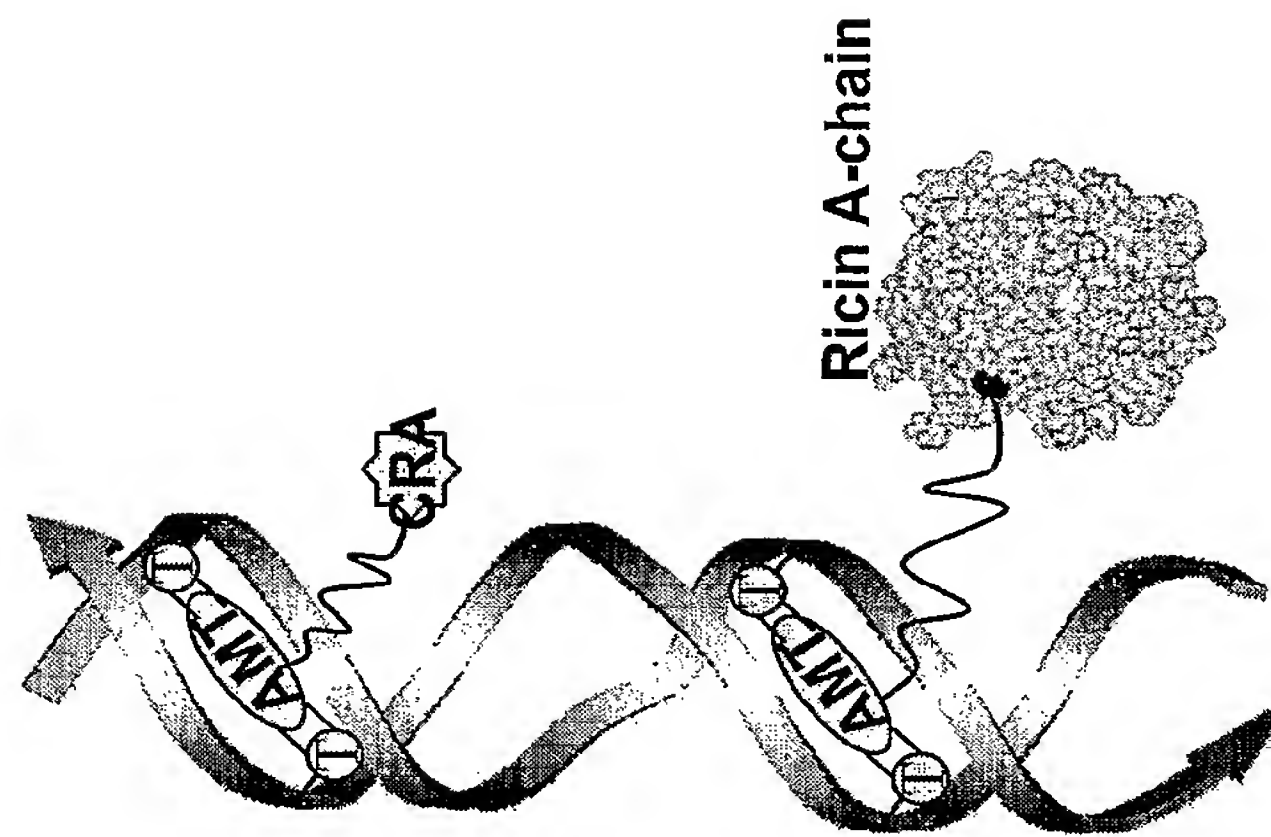
A



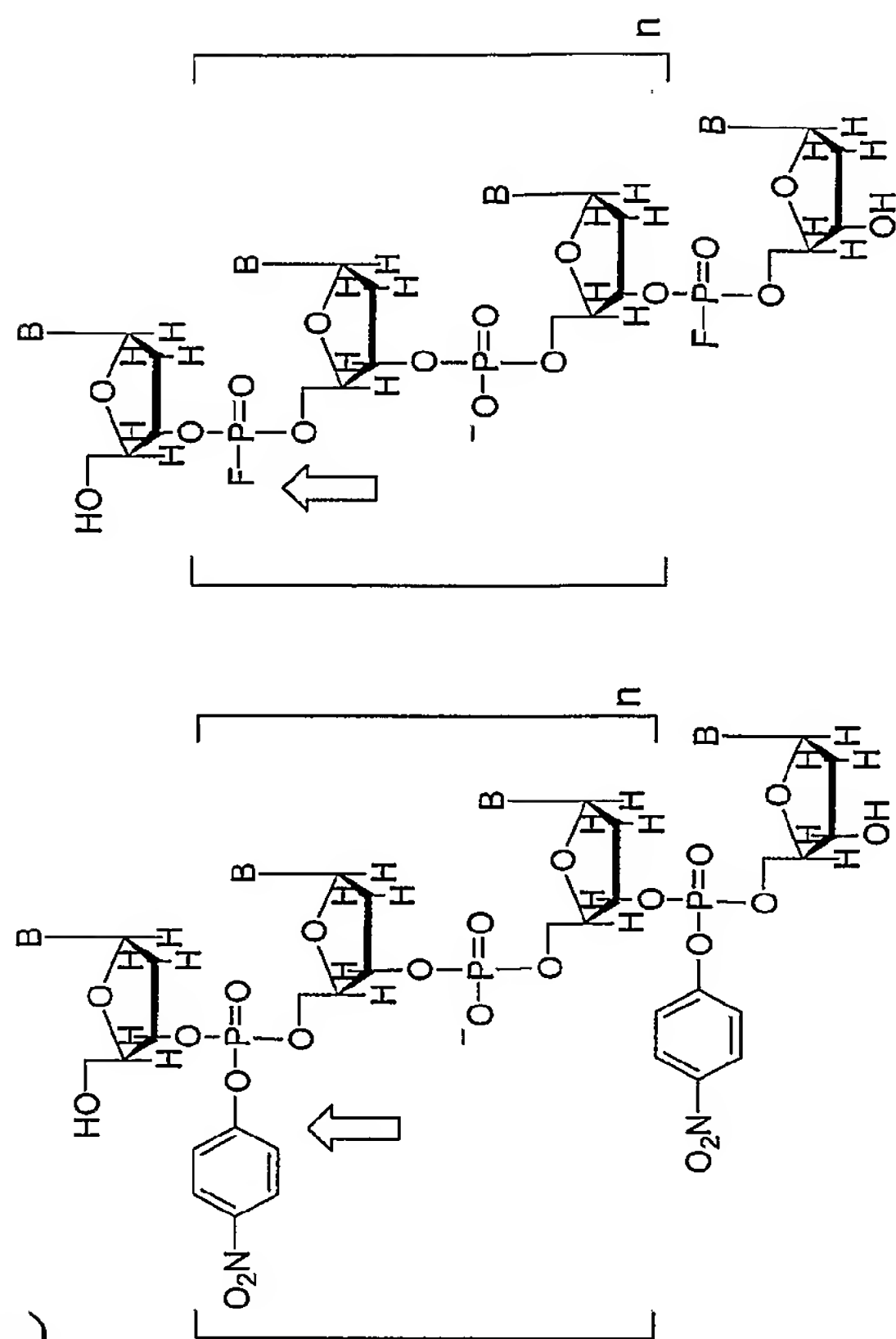
B



D



C



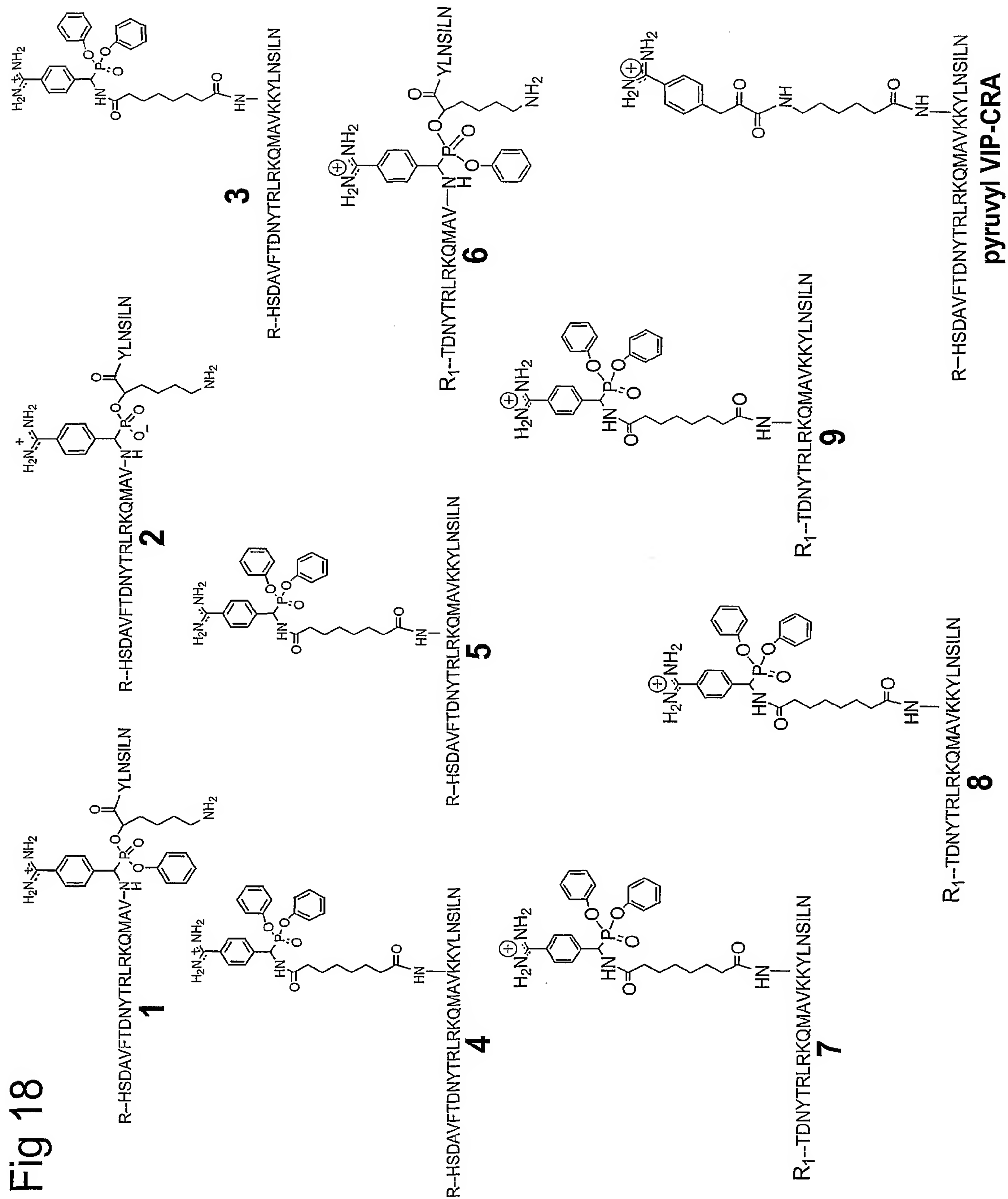


Fig 19

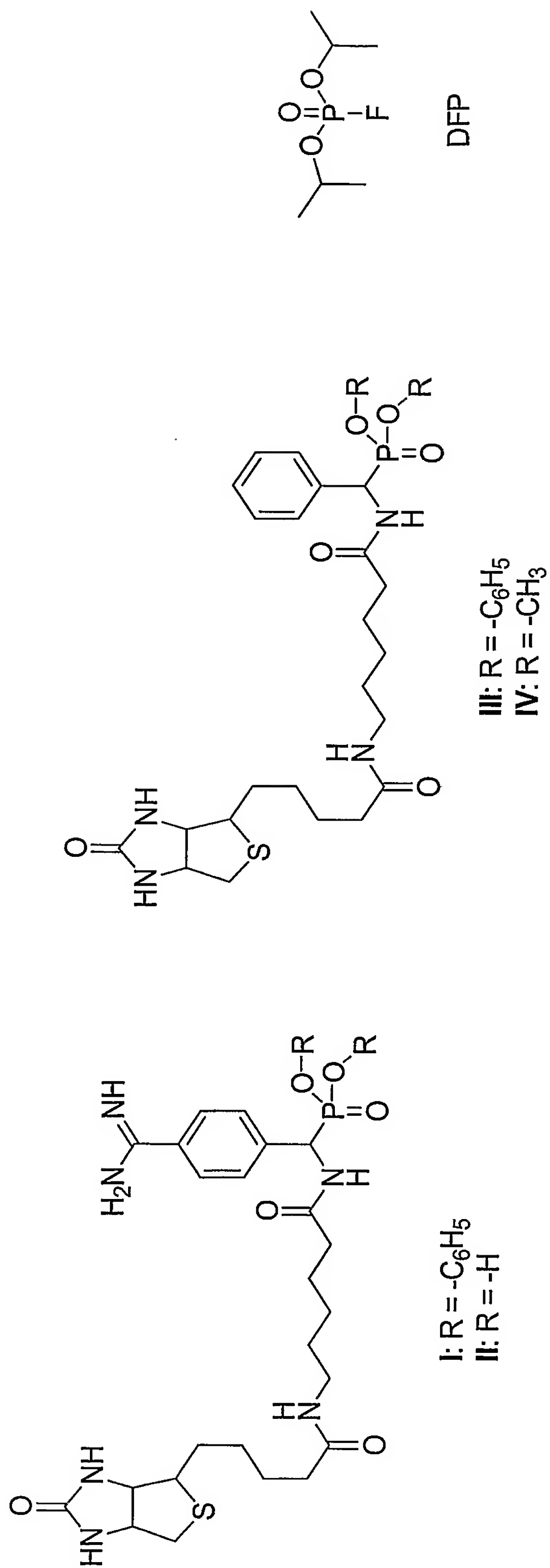


Fig 20

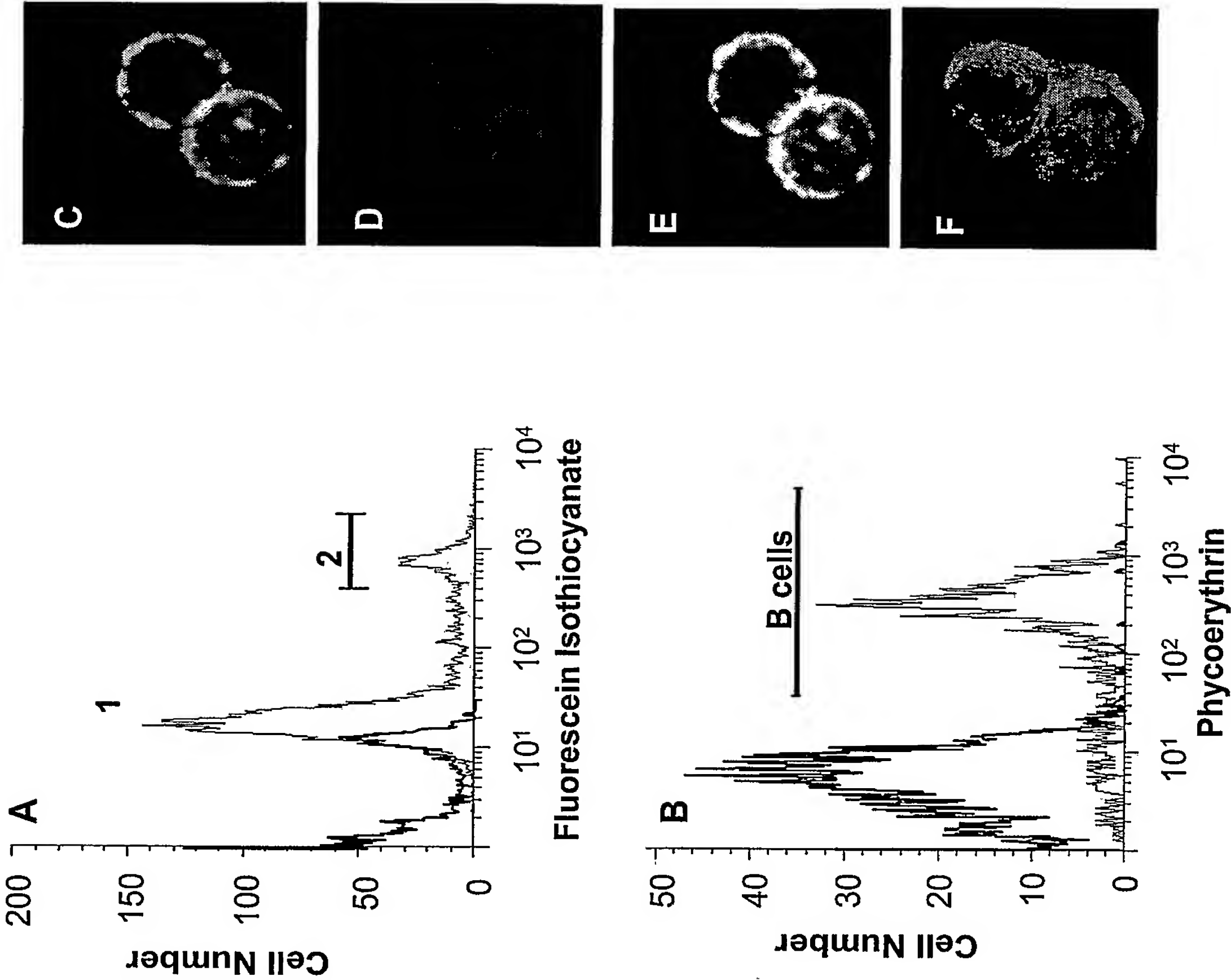


Fig 21

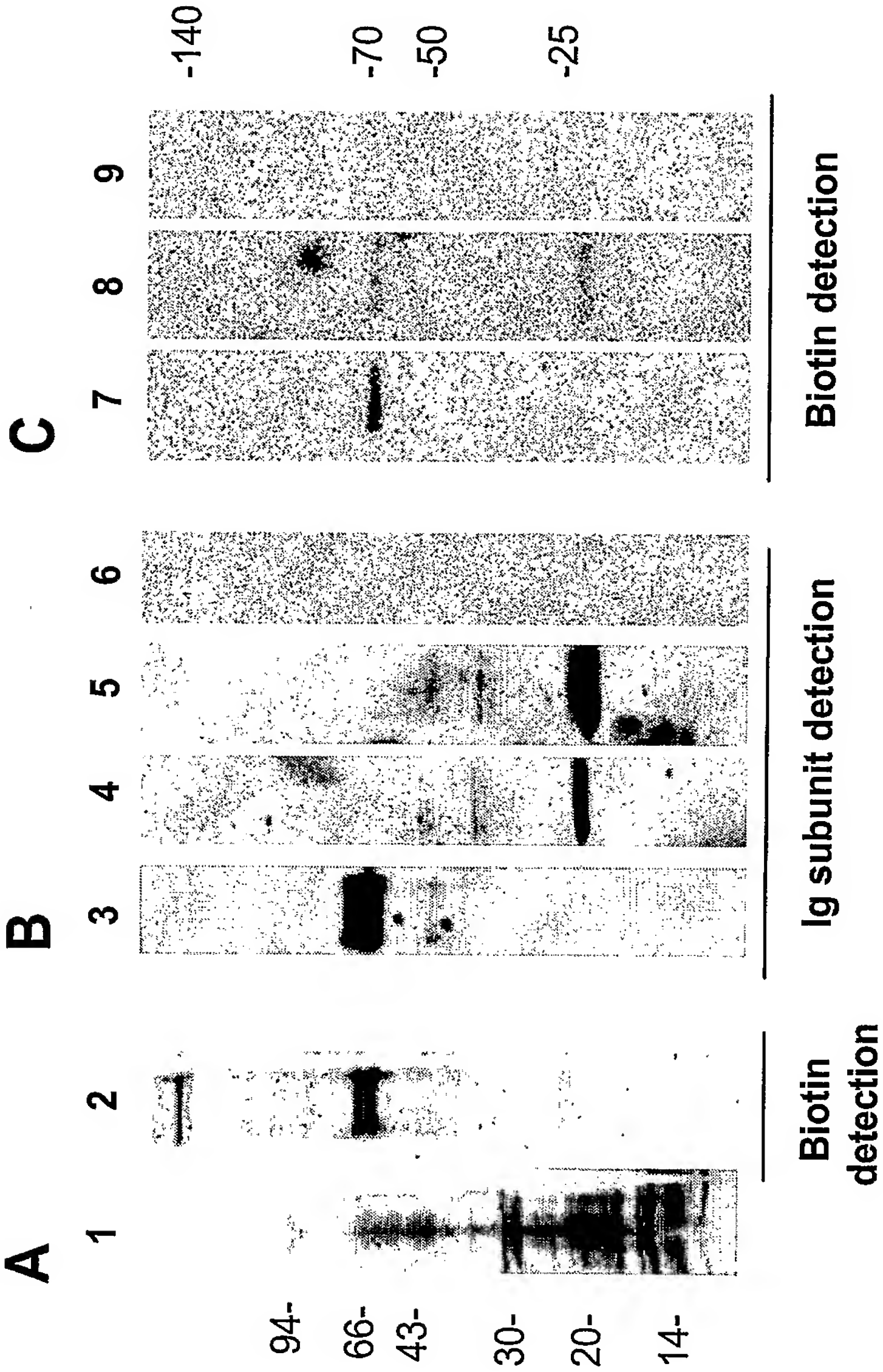


Fig 22

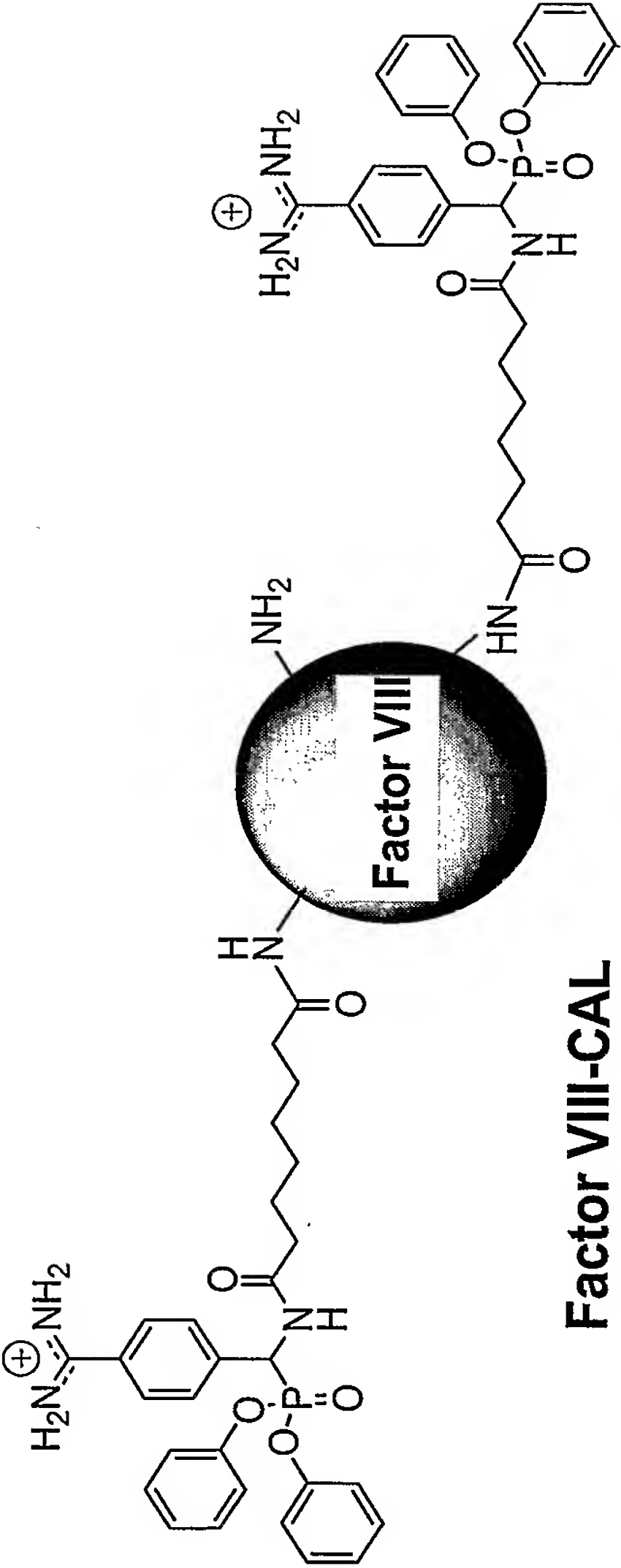


Fig 23

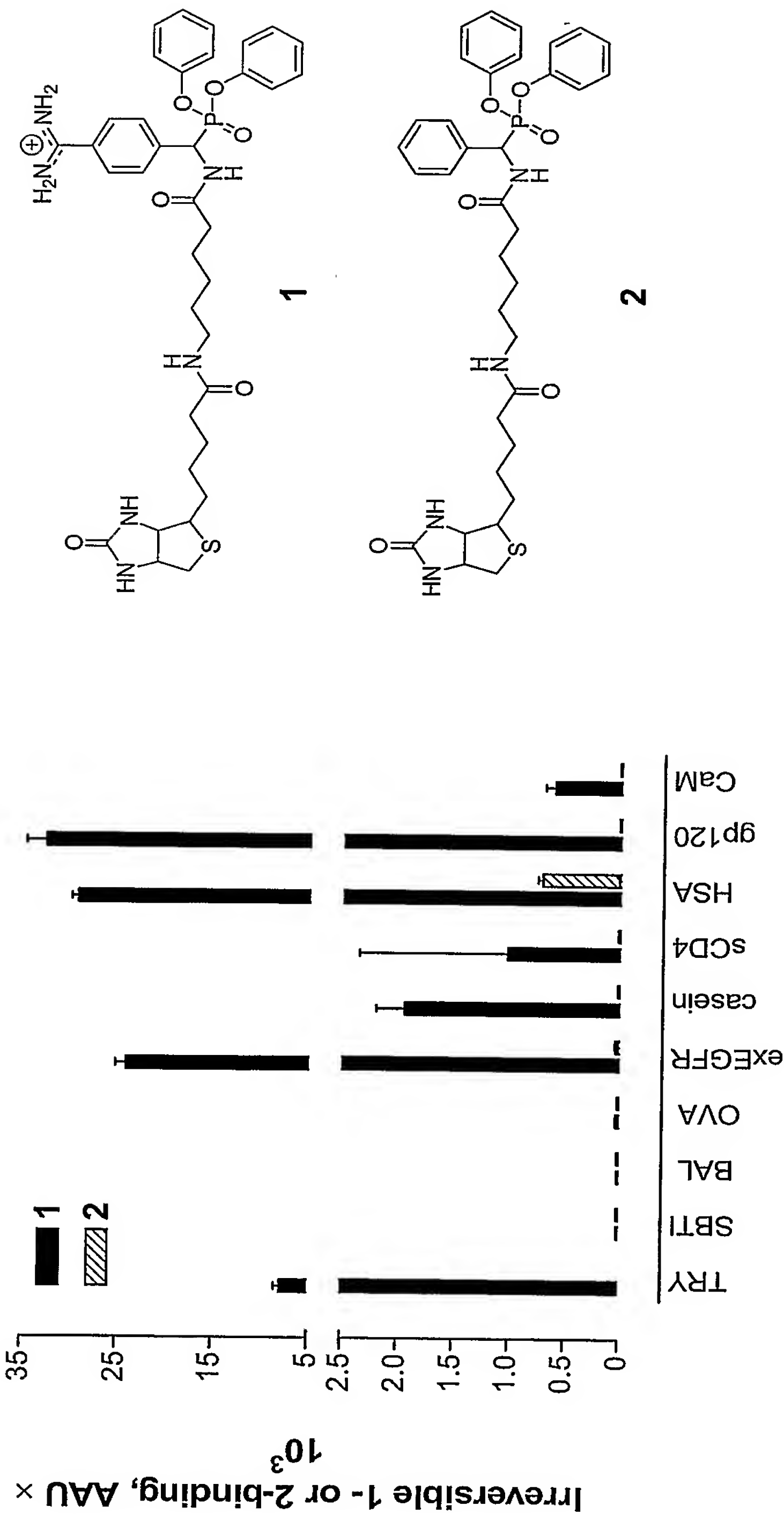


Fig 24

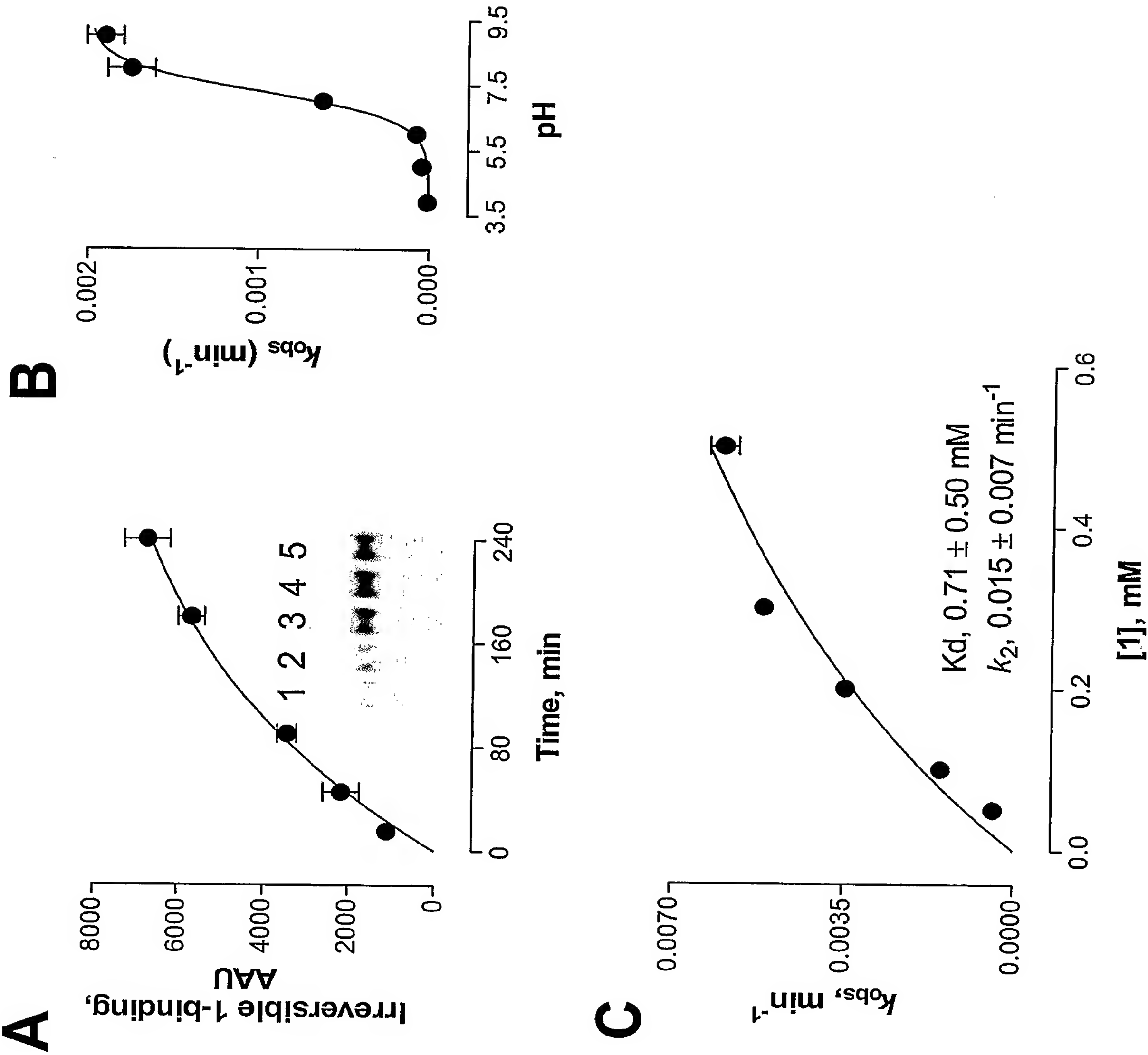


Fig 25

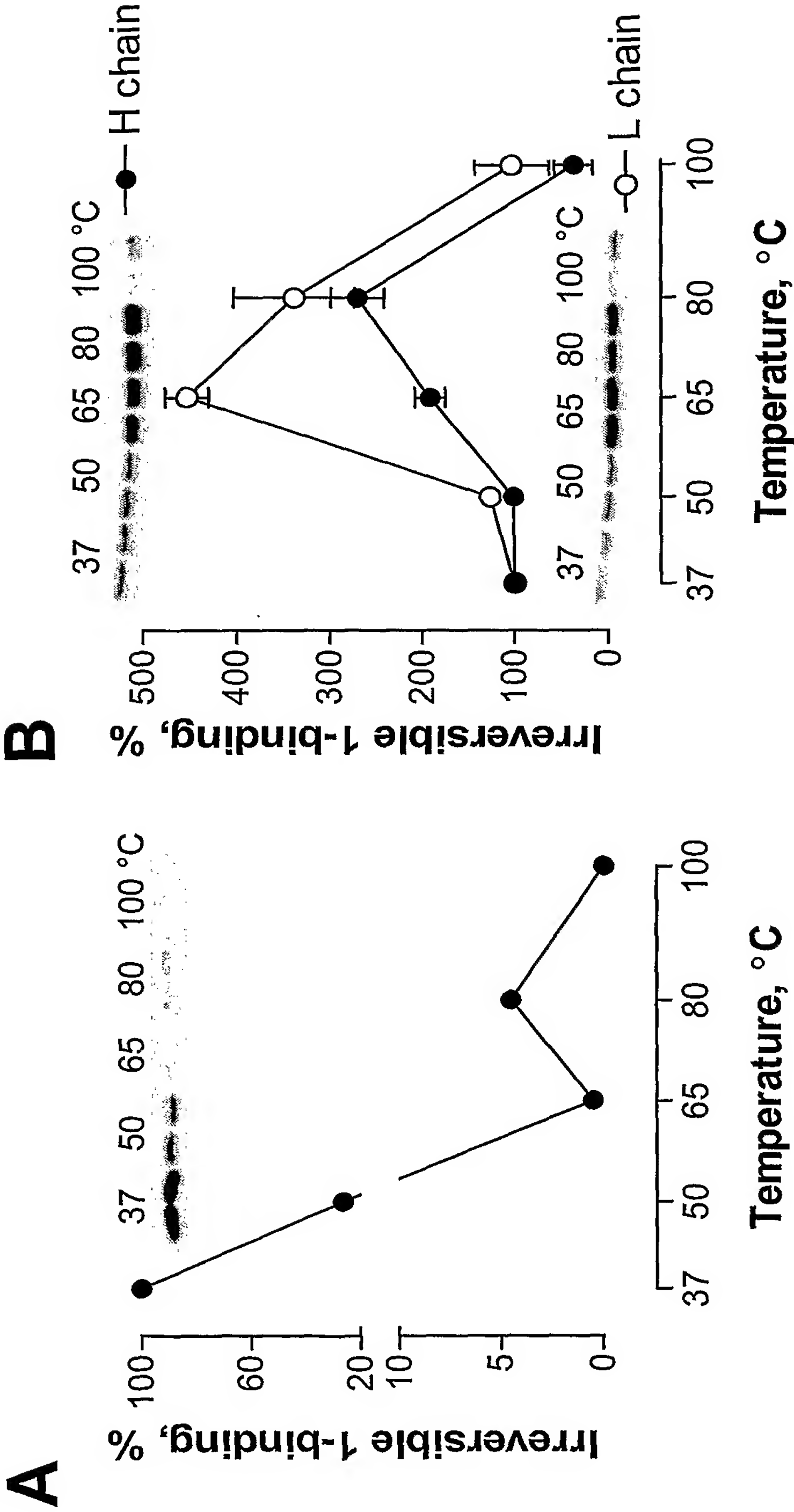
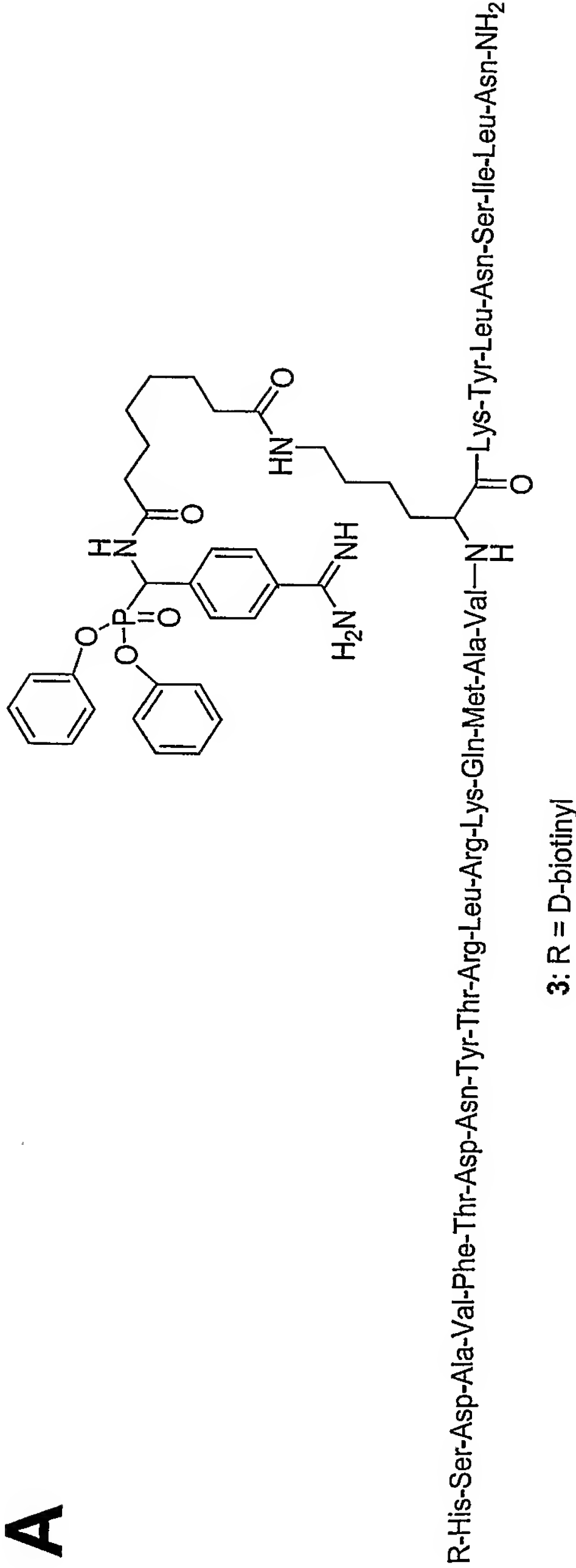
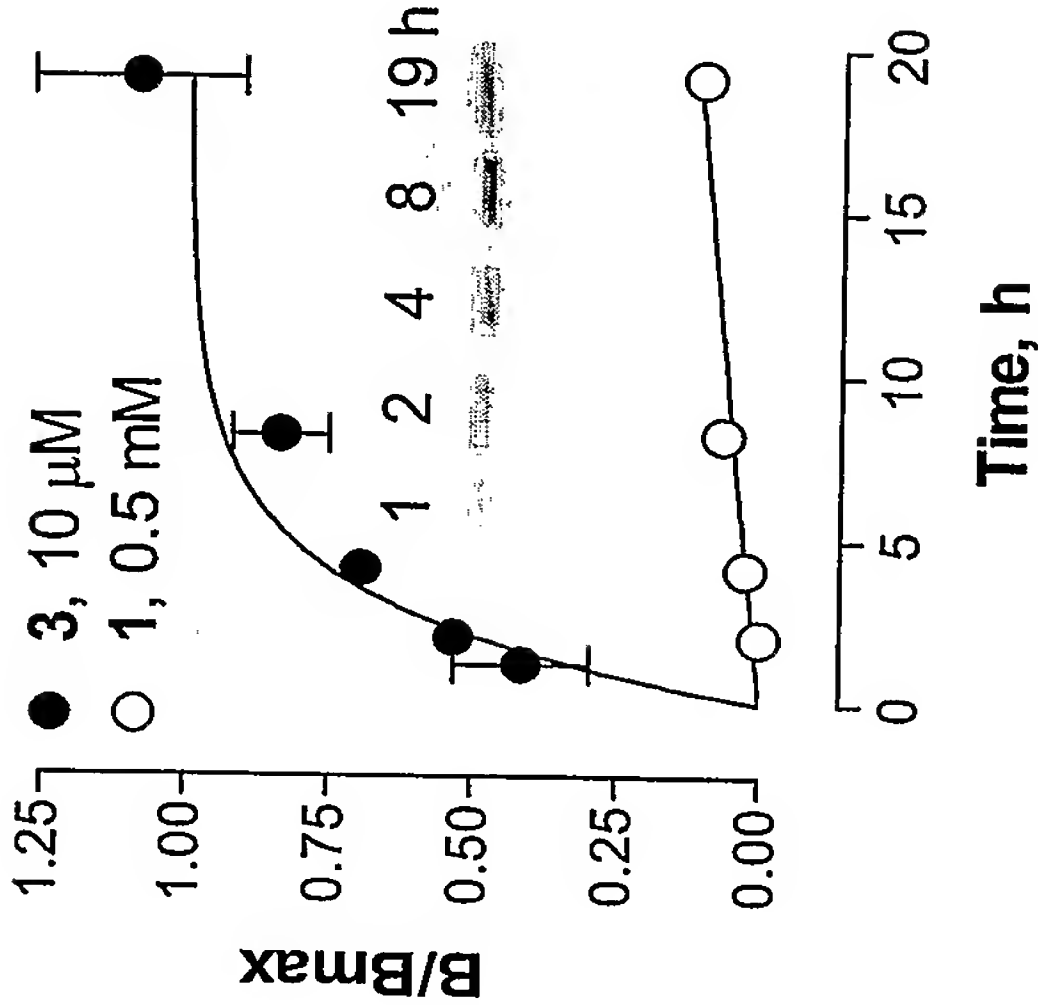


Fig 26

A



B



C

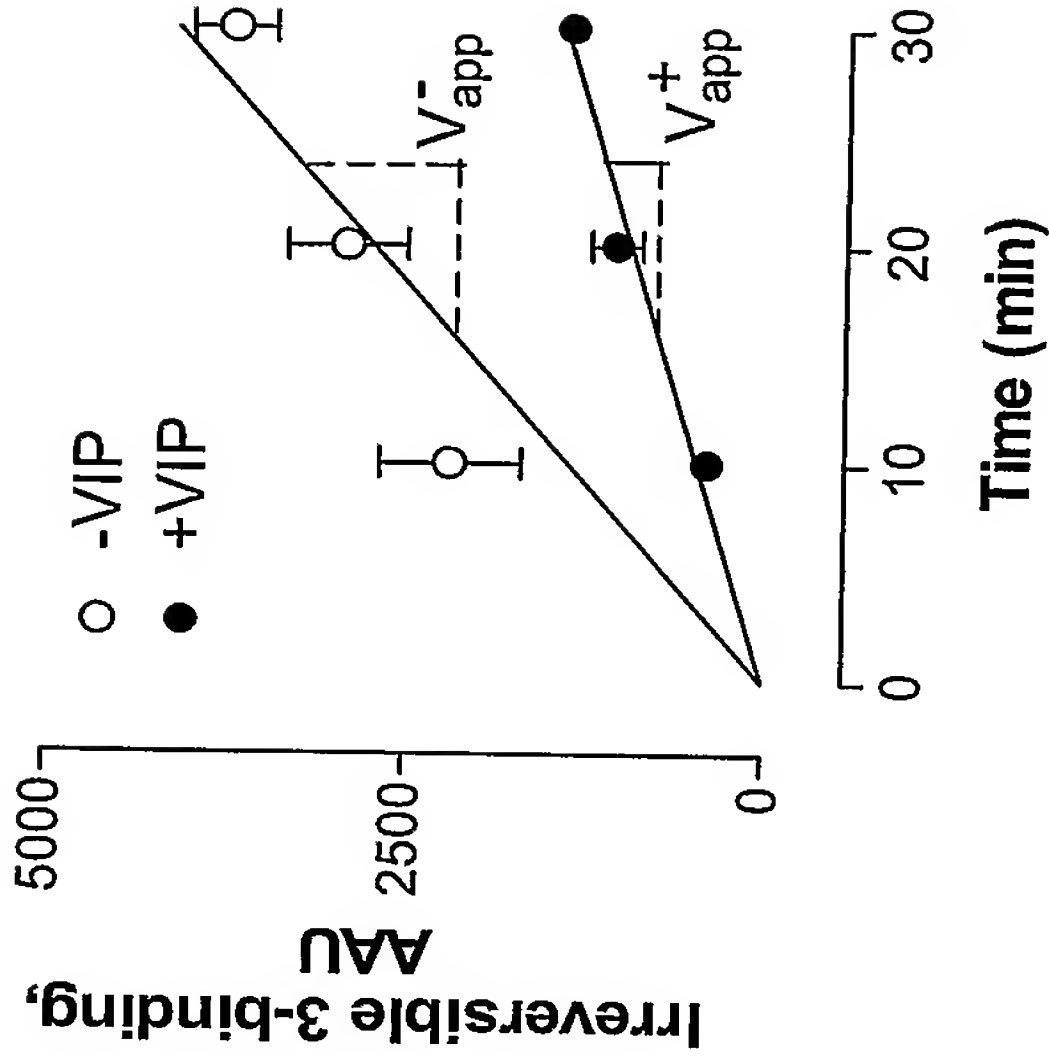


Fig 27

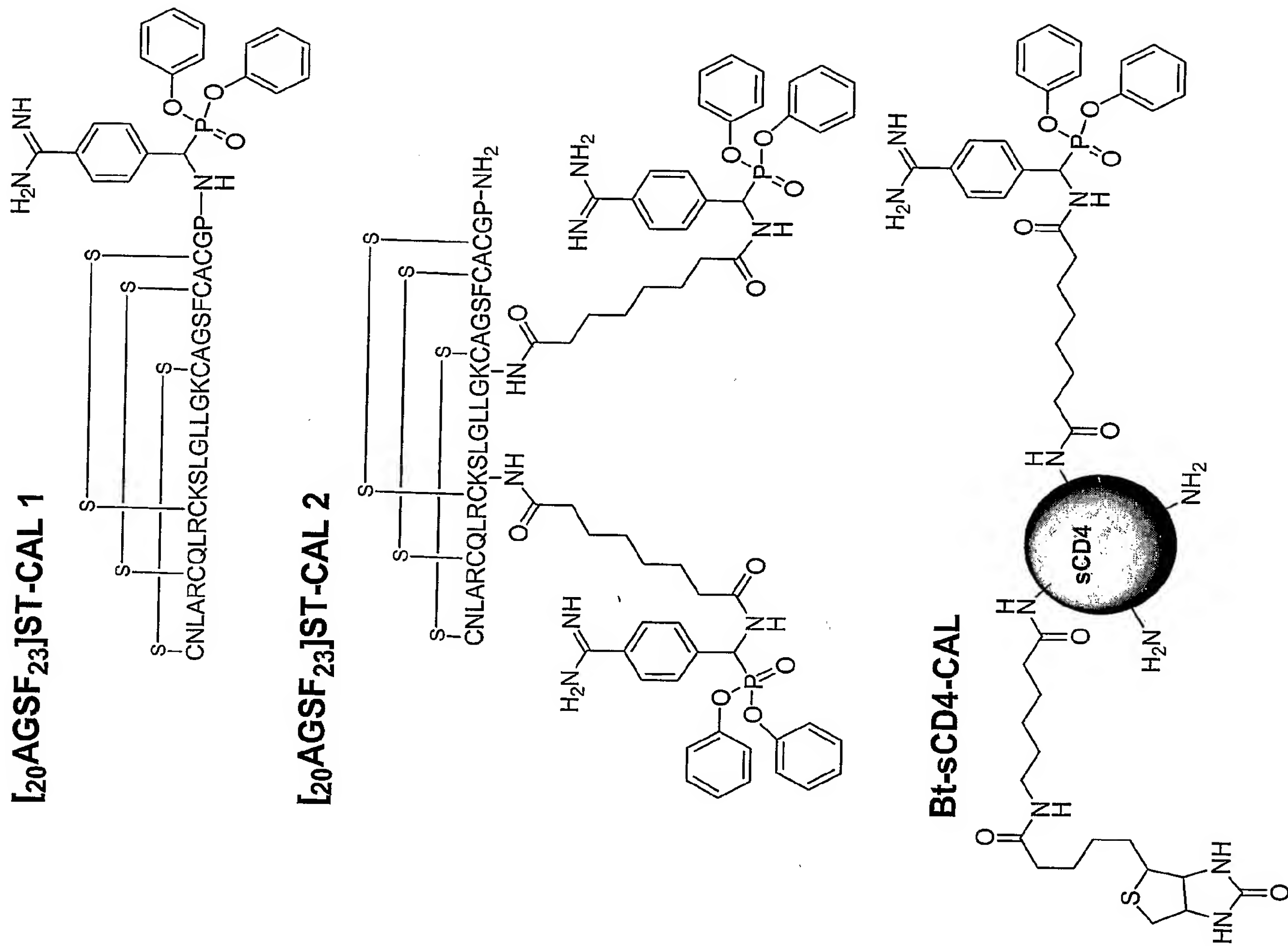


Fig 28

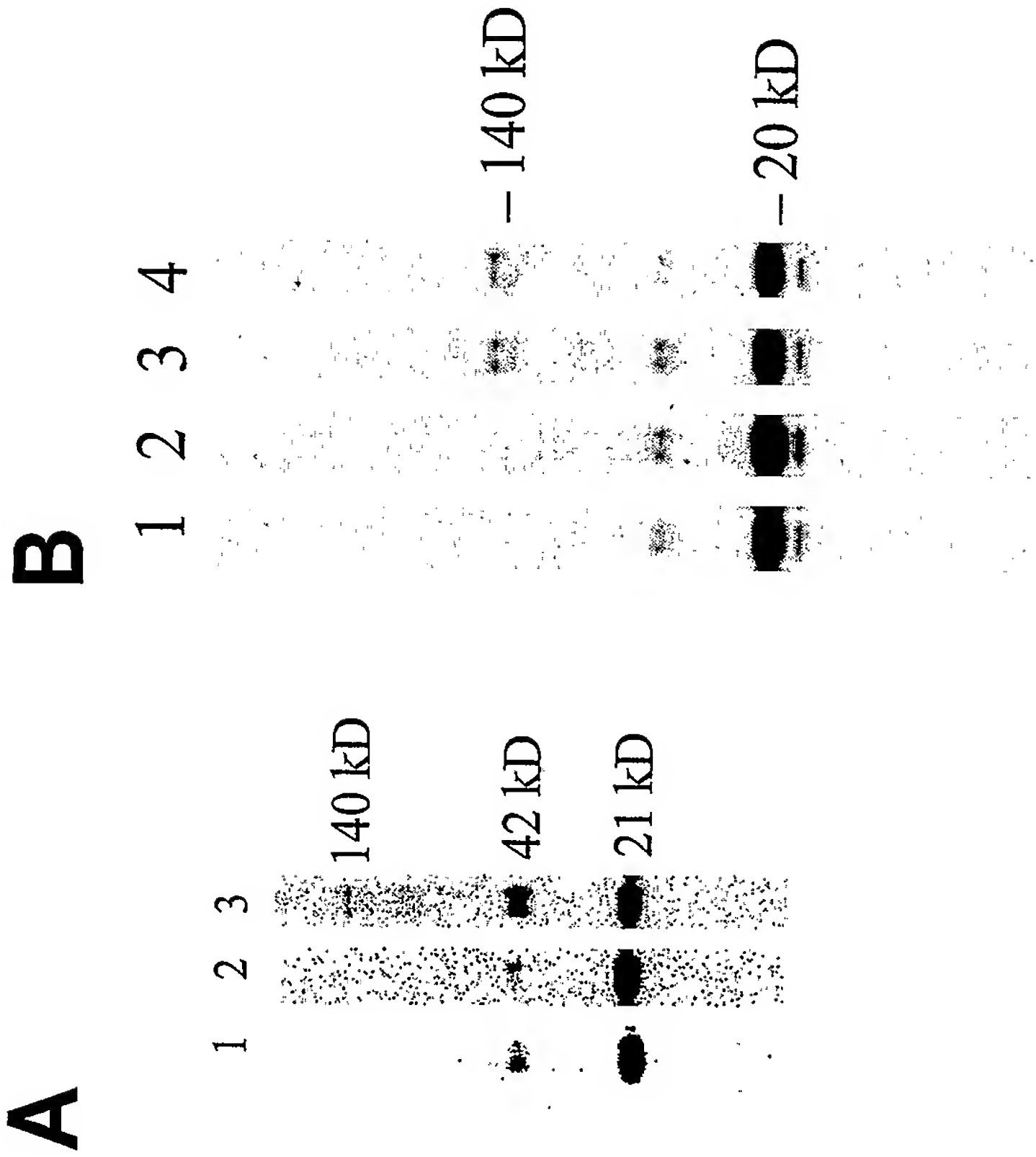


Fig 29

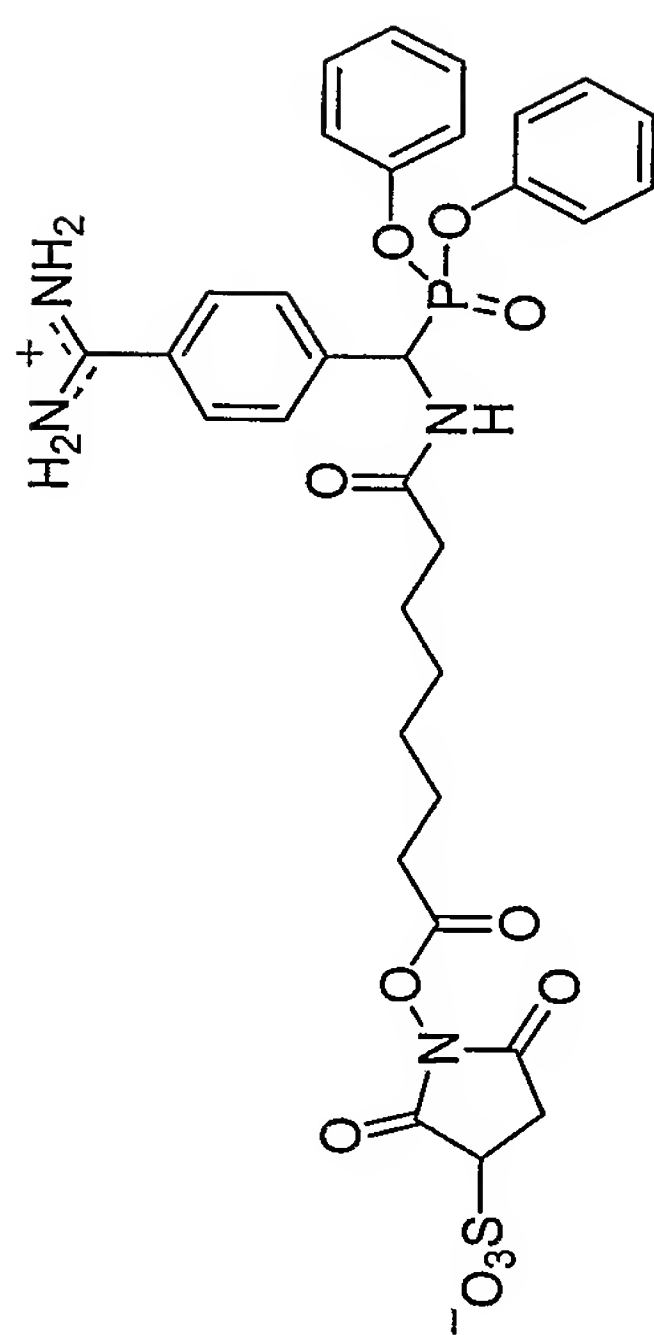
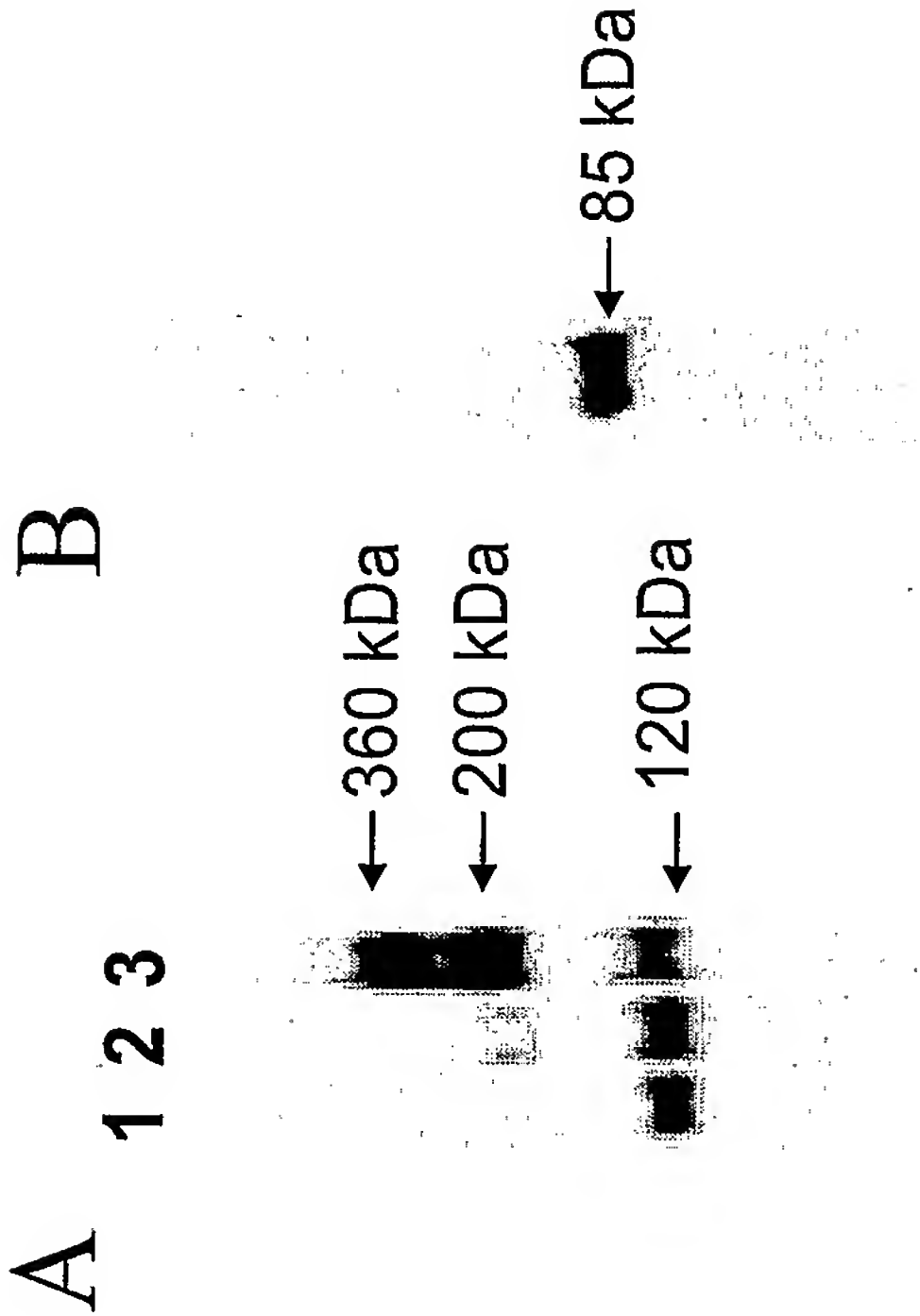


Fig 30



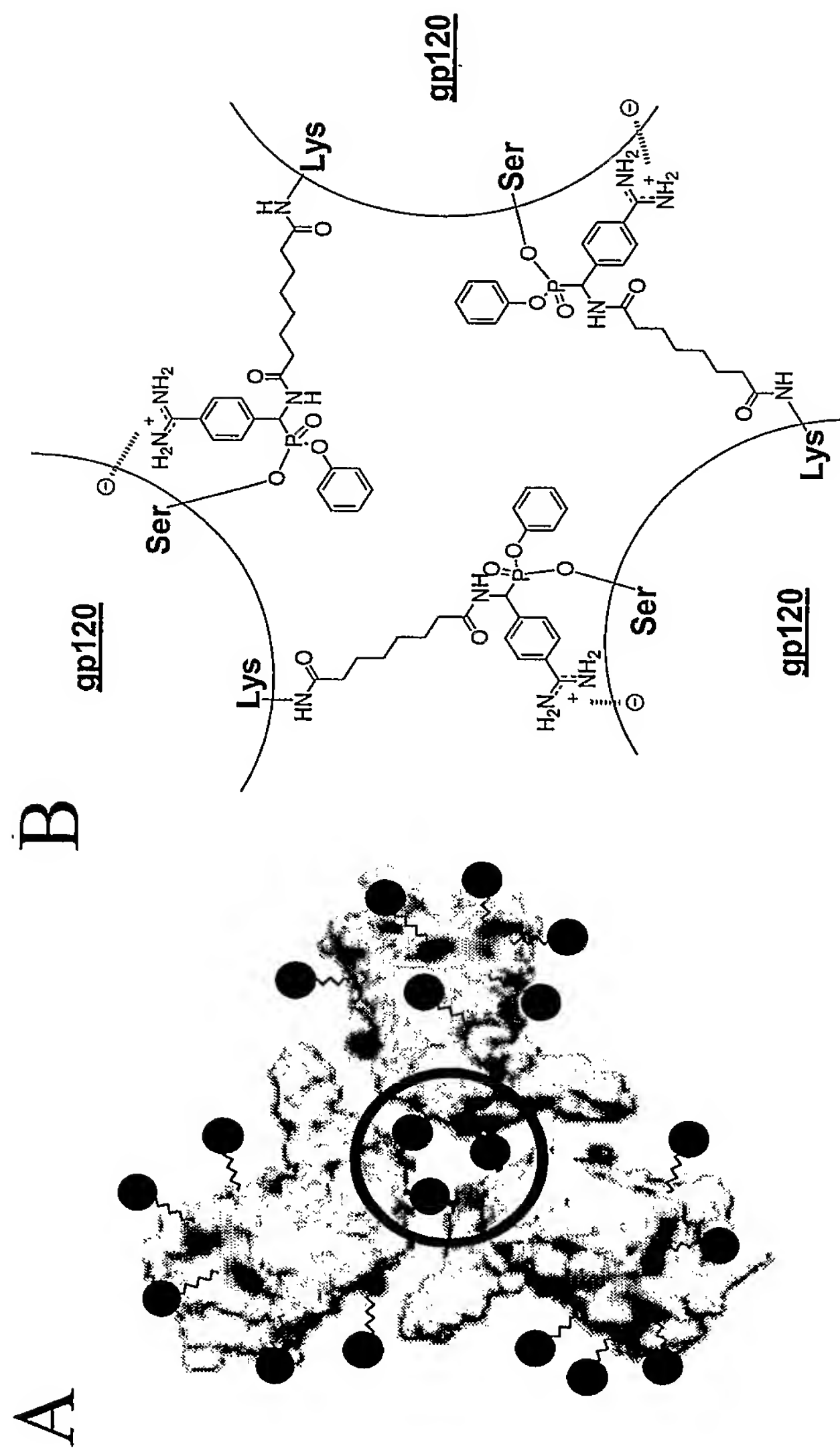


Fig 31

Fig 32

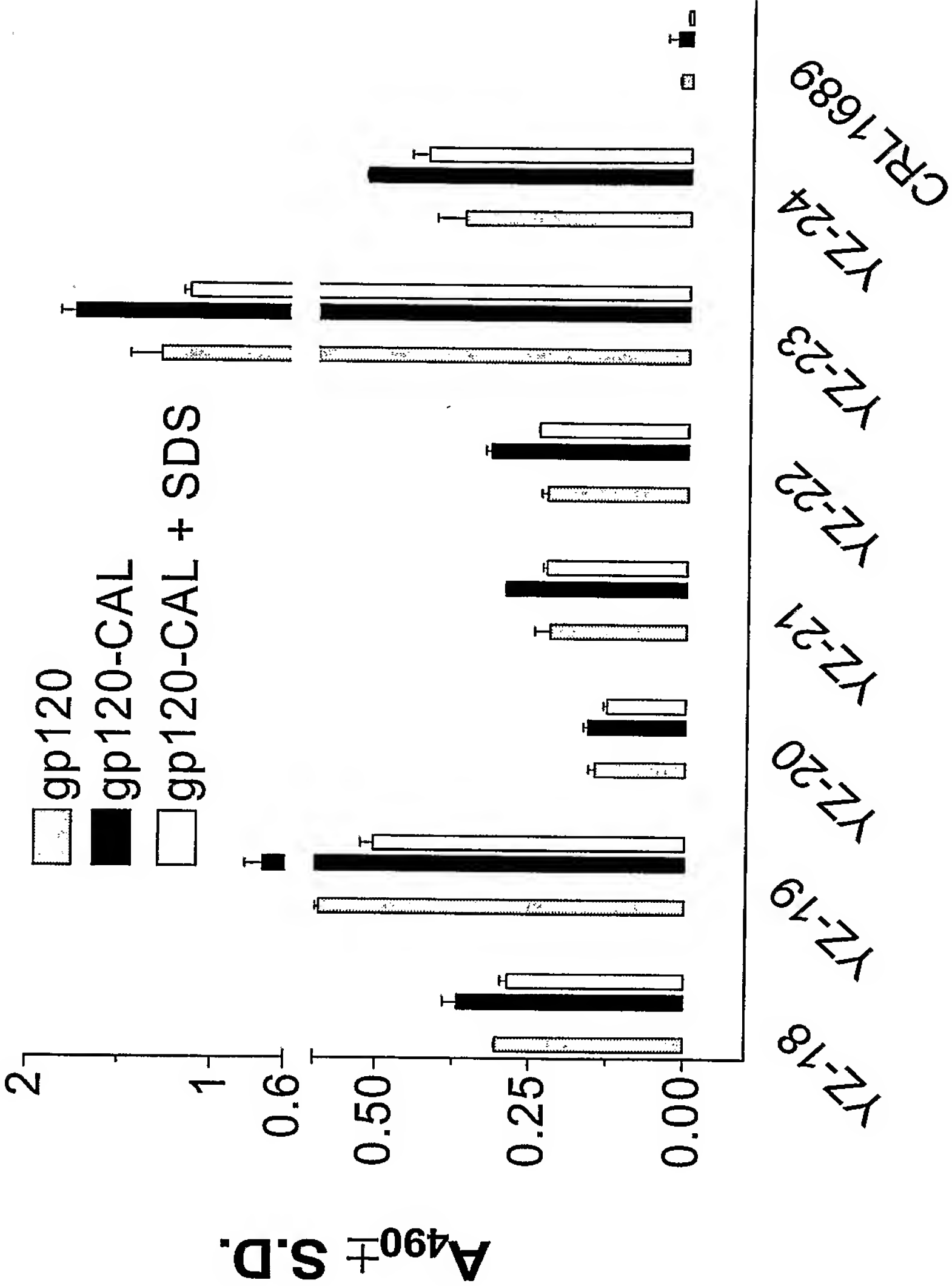


Fig 33

